**Operating Manual** **Englisch**

# UFS 912

## HDTV Satellite Receiver

KATHREIN
Antennen · Electronic

# Preface

Dear customer,

this operating manual is intended to help you make the fullest use of the extensive range of functions offered by your new satellite receiver.

We have tried to make the operating instructions as easy as possible to understand, and to keep them as concise as possible. To help you understand particular specialist terms that cannot be translated, we have added a short glossary at the end of the manual.

The power switch is an environmentally friendly feature. If you will not be using your receiver for an extended period, you should use the on/off switch to disconnect it from the power supply and save energy. For shorter breaks, you can use the remote control to switch the receiver to standby, which uses only a minimal amount of energy.

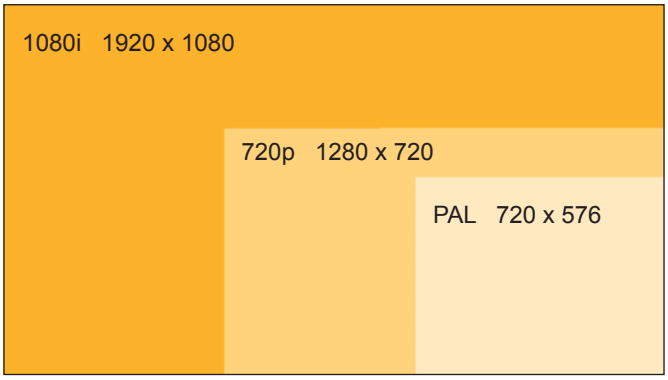
We wish you good reception and hope you will enjoy using your new HDTV receiver.

Your
KATHREIN team

# Difference Between PAL and HDTV

**The difference between PAL and HDTV**

High-resolution TV is characterised by a significantly higher number of picture lines on the TV set. The usual European standard PAL achieves a resolution of 576 lines vertically and 720 lines horizontally. High-resolution TV provides an impressive resolution, up to five times higher than the usual PAL standard TV, and hence delivering more detail sharpness and responsiveness.
A HDTV picture can contain up to five times as many picture points, that is, approximately 2 million pixels compared to a conventional PAL picture with only approximately 400,000 pixels.
Worldwide there are currently two HDTV standards, based on the two formats 1080i and 720p. The two standards differ in the number of picture lines and in the transmission procedure. To the human eye, the difference between the two HDTV standards is hardly perceptible; whereas in comparison to the PAL system, moving pictures look much more dynamic in HDTV. Transmission technology and reception equipment will be able to handle both standards in the future.



# List of Contents


**Preface** ..... 2
**Difference Between PAL and HDTV** ..... 3
**List of Contents** ..... 4
**Safety Instructions - Important Notes** ..... 6
**Receiver Features/Scope of Supply** ..... 10
Receiver features ..... 10
Product package ..... 10
Features ..... 10
**Features** ..... 11
**Connection and Setup** ..... 12
View of rear panel ..... 12
View of front panel (flap folded down) ..... 13
Connecting the unit (Sat-IF connections) ..... 14
Connection example ..... 15
TV and video recorder connection ..... 16
Audio connection ..... 16
Optical digital output ..... 16
Inserting batteries into the remote control ..... 16
First installation ..... 17
**General Operating Instructions** ..... 46
Alphanumeric entries ..... 46
Editing and selection options in the menus ..... 47
**Basic Operation in TV or Radio Mode (Live Operation)** ..... 48
Remote control for live operation (TV/Radio) ..... 48
Changeover between TV and Radio operation ..... 49
Setting the volume ..... 49
Channel selection ..... 49
Direct channel selection ..... 49
Channel selection from the channel list ..... 50
Channel information ..... 52
Calling up channel options ..... 53
Select Audio track ..... 54
Subtitle selection ..... 54
Teletext ..... 55
Automatic timeshift ..... 56
One-Touch Recording (OTR) - recording directly to a hard disk *) ..... 57
**Premium tvtv EPG** ..... 58
General information about the Premium tvtv EPG ..... 58
Calling up the EPG ..... 59
Selection options (remote control buttons in the EPG) ..... 60
Views using the EPG ..... 61
"Current" view ..... 61
"Preview" view (programme listings) ..... 62
Categories view ..... 63
Extras menu ..... 64
My hints ..... 64
Search function ..... 66
More Episodes ..... 66
Actor ..... 67
Keyword search in detailed information ..... 67
Full-text search ..... 68
Recording settings (programming the timer) ..... 69
Setting the storage location for recordings ..... 71
Recording "once" ..... 72
Recording "daily" ..... 72
Recording "weekly" ..... 73
Recording "user-defined" ..... 73
"Series recording" ..... 74
Reminder function (switch over to programme) ..... 75
Timer list view ..... 76
Editing a recording ..... 77
Timer overlap ..... 77
**Editing the Channel List** ..... 78
Calling up the "Edit TV Channellist" menu ..... 78
Selection of the channel list/favorites list to be edited ..... 79
Selecting the channels to be edited ..... 80
Editing channels (channel lists) ..... 80
Move ..... 81
Delete ..... 81
Skip ..... 81
Lock ..... 82
To Favorite ..... 82
Start Blockselection ..... 83
Editing channels (favorites lists) ..... 83
Move ..... 83
Remove from favoritelist ..... 83
Lock ..... 84
Start block selection ..... 84
Rename favoritelist ..... 84
**Recording Archive (Playing Back/Editing Recordings)** ..... 85
Calling up the recording archive ..... 85
Selection options (remote control buttons in the recording archive) ..... 86

# List of Contents


Views (sorting the recordings) in the recording archive ... 87
Folders in the recording archive ... 88
Creating folders ... 88
Editing folders (delete/rename) ... 89
Playback of a recording ... 90
Playback functions ... 90
Creating chapters ... 91
Selection of the recording(s) to be edited ... 92
Editing recordings ... 92
Delete ... 93
Lock ... 93
Rename ... 93
Change category ... 94
Create new folder ... 95
Move to folder ... 95
Chapter view ... 96
Deleting chapters ... 97
**Main Menu ... 99**
Calling up the main menu and introduction ... 99
Menu overview ... 100
**Main Menu - Channel Search ... 101**
Automatic Channel Search ... 101
Manual Search ... 103
Search with Service ID ... 105
**Main Menu - Service Menu ... 107**
Automatic Software Update ... 107
Software update by satellite ... 109
Software update by USB ... 110
Update Firmware ... 111
Update Channel List ... 111
Save channel list to USB ... 111
Factory Reset ... 112
**Main Menu - Settings ... 113**
First Installation ... 113
Basic Settings ... 113
Video Settings ... 114
Audio Settings ... 116
Time Setting ... 117
Remote control code ... 118
User Defined Settings ... 120
Parental Lock ... 120
Customize Screen Menu ... 122
EPG Setup ... 123
PVR (recording) Setup ... 125
Mediacenter Setup ... 126
Automatic channel name update ... 126
Antenna & Satellite ... 126
SatFinder ... 127
Tuner Configuration ... 128
Edit Satellites ... 128
Edit Transponder ... 130
**Main Menu - Interfaces (CI, hard disk and network) ... 134**
Common interface ... 134
Important information ... 134
Inserting the smart card and the CA module ... 135
Multidecryption ... 136
HDD Management ... 137
Ethernet Settings ... 138
**Main Menu - Applications ... 141**
Applications ... 141
**Main Menu - Language Settings ... 142**
**Tuner Configuration ... 143**
**Media Centre ... 165**
**Operation Without the Remote Control ... 166**
Backup operation ... 166
Software update via the USB port ... 167
Performing the software update ... 167
**Troubleshooting ... 168**
**Technical Appendix ... 169**
Technical Specifications ... 169
Sat IF connection examples ... 170
Individual reception systems ... 170
Community antenna network systems (4 x Sat IF) ... 170
Community antenna network systems (8 x Sat IF), multi-feed ... 171
Community antenna network systems (16 x Sat IF), multi-feed ... 171
Single cable systems ... 172
Connection examples for network functionality ... 174
**Short Technical Glossary ... 178**
**Service ... 182**
**Subject Index ... 183**
**For your notes ... 186**

# Safety Instructions - Important Notes

*These two pages contain important information about operation, installation location and connection of the unit. Read these instructions carefully before setting up the device.*

Danger!

### Mains cable

Make sure that the mains cable (power supply cable) is not damaged. Units with a damaged mains cable must be disconnected from the mains (unplugged at the mains power socket) and repaired by an electrical specialist before being used. Only use the power pack supplied (if available)!

*Risk of fatal injury due to electric shock!*

### Cleaning

Disconnect the mains plug before cleaning the unit. Only use a dry cloth for cleaning and only clean the outer surface. Never open the casing of the unit.

*Touching the parts inside the unit carries a risk of death due to electric shock!*

### Playing children

Make sure that children do not push any objects into the ventilation slots.

*Risk of fatal injury due to electric shock!*

Warning!

### Earthing

The antenna system must be earthed as specified or equi-potentially bonded.
EN 60728/11 and any national regulations must be complied with.

*Risk of voltage surges due to lightning strikes!*

### Power supply voltage

Only operate the unit at the specified mains voltage (indicated on the rear of the unit or on the external power pack). The unit may only be connected to the mains and turned on once it has been connected to the antenna and to the TV set or the cable network and PC.

*If the mains voltage is too high, there is a risk of fire!*

### Moisture, direct sunlight, heat, naked flames

Protect the unit against moisture, dripping and splashed water (do not place any filled objects such as vases on top of the unit). Do not place the unit close to a heater or expose it to direct sunlight and do not operate it in damp locations. Only use the unit in a moderate climate, not in tropical conditions! Place no naked flames such as candles on top of the unit!

*There is a risk of fire!*

### Batteries

If your unit was supplied with batteries (e.g. for the remote control), take care that the batteries are not exposed to excessively high temperatures, direct sunshine or fire. Exchange the batteries only with types that are identical or equivalent. Otherwise the batteries and also the remote control may be damaged. Comply also with the safety instructions stated on the batteries:

*There is a risk of explosions!*

Warning!

Warning!

### Ventilation

The heat generated in this unit is adequately dissipated. However, the unit should never be installed in a cupboard or on shelves with inadequate ventilation. Never cover the cooling slots on the unit (e.g. with other equipment, magazines, tablecloths, clothing or curtains)!

Do not cover

→

Do not place any objects on top of the unit. Unless stated to the contrary in the “Connection and Set-Up” and “Installation” sections in the manual supplied, maintain a clearance of at least 10 cm above the unit, 2 cm to either side and 5 cm behind the unit, to allow unobstructed dissipation of the heat generated.

*There is a risk of fire!*

Important!

**Repairs**

Ensure that any repairs to your unit are carried out by qualified personnel. Opening the unit and attempting to repair it yourself voids all warranty claims!
Improper work on the unit may jeopardise the electrical safety of the unit.

*The manufacturer accepts no liability for accidents caused by the user opening the casing of the unit.*

**Connections**

Incorrect wiring of the connections can lead to malfunctions or defects on the unit!

**Periods of extended absence, thunderstorms, mains socket accessibility**

In order to disconnect the unit from the mains completely, the mains plug must be unplugged from the wall socket! Therefore install the unit close to a mains socket and make sure this socket is accessible at all times, so that you can disconnect the unit from the mains if necessary.
If you are away for an extended period, and during thunderstorms, always switch the unit off at the mains and unplug it from the socket. This also applies to the other equipment connected to the unit. Isolation from the cable network is also recommended. Note any timer programming (receiver) and turn the unit on again promptly before the recording time.

**Installation location**

All electronic equipment generates heat. The temperature rise of this unit does however lie within the permissible range. Sensitive furniture surfaces and veneers may become discoloured by the effects of constant heat over time. The feet of the unit can also cause colour changes to treated furniture surfaces. If necessary, place the unit on a suitable stable and flat base!

Electronic equipment is not domestic waste - it must be disposed of properly in accordance with directive 2002/96/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL dated 27th January 2003 concerning used electrical and electronic appliances.
At the end of its service life, take this device for disposal at a designated public collection point.

**Spent batteries are special waste!**
Do not throw spent batteries into your domestic waste; take them to a collection point for spent batteries!

# Safety Instructions - Important Notes

## Channel assignment

The channels available on the satellites and transponders are subject to continual change. If changes do occur, the new channels have to be set on the receiver because the factory preset programming corresponds to the status on the date of manufacture. The information for these settings can be found on the Internet or in relevant magazines.

## Updating the receiver software

Your receiver was equipped in the factory with the latest software version at that time. We are however constantly working on and adapting the software to the wishes of our customers and to developments in technology. Further information on this can be found in the sections “Main Menu - Service Menu”, “Software Update”.

## Network function

To connect the PC/laptop and receiver to the network, you must have unrestricted rights (administrator rights) for your PC/laptop and on your network. For this refer to the section “Main Menu”, “Interfaces”, “Ethernet Settings”.

## Product return/original packaging

Please keep the original packaging in case you need to return the product at any time. The receivers are fragile due to their construction and are only adequately protected by the original packaging. If the receiver is not shipped correctly the guarantee/warranty on it will be voided.

## Software changes/use of applications

Any modifications to the receiver software, or the use of applications not provided by Kathrein, will invalidate the warranty! You will have to bear the costs yourself for shipping and repairing any receiver that requires attention due to modifications to the software and use of applications other than those provided by Kathrein!
Therefore exclusively use only software and applications provided by Kathrein for your receiver. These are available by downloading from the satellite or from our Internet pages (www.kathrein.de).

## Ventilation slots on the unit

**Make sure that the ventilation slots on the unit are not covered in any way. Otherwise the unit may overheat.**

**There is a risk of fire!**

# Safety Instructions - Important Notes

## Switching the receiver off

Before you switch the receiver using the power switch, you must switch the remote control into standby mode by pressing the standby button ( on/off ). In standby mode, any changed or new data that are broadcast will be saved by the receiver. Once the receiver is in standby mode it can be fully switched off at any time at the power switch on the rear of the unit.

**Do not switch the receiver off at the power switch directly from the operating mode! This can lead to a loss of data and corruption of the software.**

## Information on Audio MPEG Inc. and S.I.SV.EL, S.P.A:

This unit makes use of legally protected technologies, which are protected by patents in the USA and also by other intellectual property rights in other countries.
KATHREIN-Werke KG has obtained licences from Audio MPEG Inc. and Societa‘ Italiana per lo sviluppo dell‘elettronica, S.I.SV.EL, S.P.A to use these technologies. These licences carry certain restrictions, which apply also to you as the customer. Accordingly this unit may only be used by the end customer for private non-commercial purposes and for the licensed content. It may not be used for commercial purposes. The use of products or processes that are sold or used with this unit is not included in this statement. The use of reverse engineering is not permitted in respect of the licensed technologies, nor is disassembly.

## Power consumption in standby mode < 1 W

The standby power consumption of < 1 W printed on the receiver packaging is only achieved when the receiver is in standby mode with the display switched off. You can make this setting in the following menu: “Main menu”, “Settings”, “User Defined Settings”, “Customize screen menu”, “Front Display in Standby”

## Miscellaneous

The information in this operating manual was correct at the time of going to print. We reserve the right however to make changes at any time and without prior notice. If new software is released for your receiver, and this affects the information in the operating manual (e.g. changes to the menus and/or functions), if we believe it necessary we will make available a new operating manual for download under “www.kathrein.de”.

Make a note of the receiver's basic settings (these are set during the first installation), so you can restore them if necessary!

Included in the software for this receiver is software that is licensed under the GNU (General Public Licence). The source code of the program is obtainable under: http://www.kathrein.de/linux/receiver/ufs912

The term DiSEqC™ used in this operating manual is a registered trade mark of the European Telecommunication Satellite Organisation (EUTELSAT).

DOLBY DIGITAL

Manufactured under licence from Dolby Laboratories. “Dolby” and the double-D symbol are registered trademarks of Dolby Laboratories.

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

# Receiver Features/Scope of Supply

## Receiver features

The UFS 912 HDTV receiver is suitable for the reception of digital satellite TV and radio channels. This receiver can receive both HDTV (High Definition Television) and also conventional TV (Standard Definition Television).

The receiver has a premium tvtv EPG. This EPG is not only a clearly laid out electronic TV guide, but also enables programmes to be copied directly from the related EPG view to the timer. It also offers the facility of selectively sorting the programme information by categories and the generation and management of your own programme tips. The premium tvtv EPG also offers a comprehensive search function allowing searches by repeats, actors and key words amongst others.

The receiver indicates the channel name on the 16-character alphanumeric display. In addition, the display has 16 icons that provide information on specific receiver conditions at a glance (e.g. Dolby Digital, HD, timer ...).
The HDMI interface is ideal for connecting the receiver to a flat-screen TV set. In addition a YPbPr connection, a video composite connection and two Scart connections are provided. Via the optical audio output, the receiver can output a Dolby Digital data stream AC 3 to a Dolby Digital system.

Using the USB port on the rear it is possible to connect an external USB hard disk to record films and radio broadcasts without loss of quality. Timeshifting is also possible with a hard disk.
Using the USB port on the front of the unit, software updates can be loaded onto the receiver.

The receiver's operating system is based on LINUX.
The receiver is available in a silver or black casing.

## Product package

- UFS 912
- Remote control RC 671
- HDMI cable
- 2 batteries AAA 1.5 V
- Power supply cable
- Operating Manual
- Safety instructions (multi-lingual)

## Features

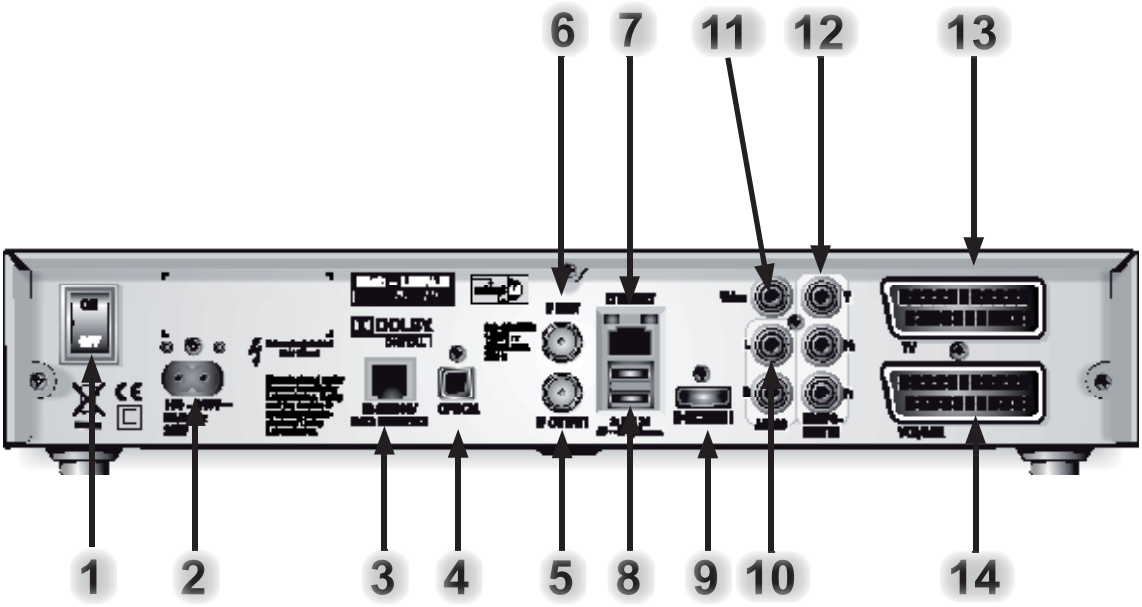
- Reception of digital satellite TV channels and radio programmes using DVB-S2 (HDTV) and DVB-S transmission standards
- Video decoding of MPEG-2 and MPEG-4/H.264 signals (HDTV)
- 16-character alphanumeric display with status icons for indication of channel names and transmission information
- Premium tvtv EPG (Electronic Programme Guide) for up to 14 days detailed information on approx. 60 channels

# Features

- Extended EPG functions:
  Selective sorting by categories, comprehensive search function, generation and management of programme tips
- Facility for recording TV and radio broadcasts to an external USB hard disk [3)]
- Timeshifting using external USB hard disk [3)]
- Recording archive with chapter menu and images [1)]
- Multimedia archive for video and MP 3 playback [1)]
- Common interface for two CA modules [2)]
- HDMI output for best picture quality on your flat-screen TV set
- Upscaler for upscaling the PAL signal to 576p, 720p, 1080i and automatic
- Built-in SD card reader
- Cinch sockets for AV signals (composite FBAS, stereo audio)
- Two USB 2.0 ports at the rear of the unit for connecting external USB storage media [3)]
- One USB 2.0 port on the front of the unit for software update with a USB stick
- Ethernet interface for multimedia applications and integration of the receiver in a network
- UPNP support via the network interface for audio and video streaming
- Guided first installation
- Pre-loaded channel list - Watch TV immediately without doing a channel search
- Automatic software and programme lists download
- Display of broadcaster logo in various on-screen displays
- Unlimited number of timer recordings can be programmed (one-off, daily, weekly, user-defined and series timer)
- 8 favorite channel lists for TV and 8 for radio
- YPbPr, TV and VCR Scart output
- Composite colour, RGB and Y/C signal output programmable via the Scart socket (TV)
- Optical audio output for Dolby Digital data stream (AC 3)
- Teletext decoder with 800 page memory capacity and teletext generation (only via Scart)
- Soundtrack selection for multilingual broadcasts
- Suitable for software updates via satellite, USB stick and PC (the operating software and the channel list can be updated separately)
- On-screen display (OSD) in 10 languages (D, GB, F, I, E, CZ, NL, PL, TR, RUS)
- DiSEqC™1.0/1.1/1.2/1.3 and SCR single cable system control signals
- Operating system based on LINUX
- Power switch
- 4,000 channel memory positions

[1)] Function only with external hard disk connected
[2)] CA modules and smart cards are not included with this product
[3)] Tested only with hard disks from the Kathrein product range (see also: www.kathrein.de → Service → FAQs)
[4)] The unit is not fully disconnected from the mains (see the sections “Safety Instructions - Important Instructions” and “Periods of extended absence, thunderstorms, mains socket accessibility”)

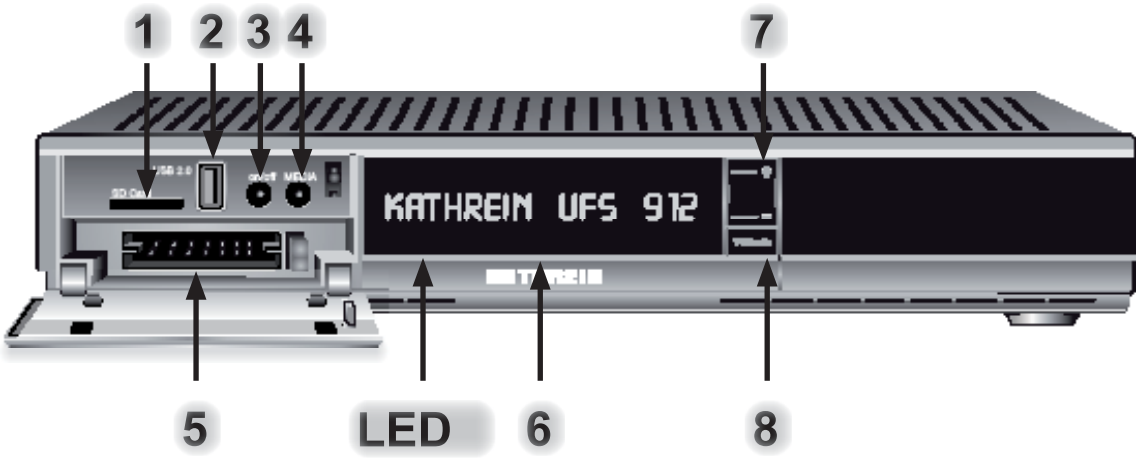
## View of rear panel




1. On/Off switch [1)]
2. Mains power cable
3. Data interface (only for service), optionally for an infrared sensor (not included)
4. Optical data stream output (SPDIF/Sony Philips Digital Interface Format) for Dolby Digital AC 3 audio
5. IF loop-through output
6. IF input
7. Network connection (Ethernet)
8. 2 x USB 2.0 ports (USB-A connectors)
9. HDMI connection
10. Audio outputs (L/R) - cinch sockets
11. Video output (composite colour)
12. 3 x Cinch connections for component outputs YUV labelled = Y/Pb/Pr
13. Scart socket for TV connection
14. Scart socket for VCR/AUX connection

[1)] The unit is not fully disconnected from the mains (see the sections “Safety Instructions - Important Instructions” and “Periods of extended absence, thunderstorms, mains socket accessibility”)

## View of front panel (flap folded down)




1. SD card slot
2. USB 2.0 port for software updates
3. Standby button (On/Off)
4. Media button
5. Common Interface for two CA modules for pay TV cards *)
6. 16 character alphanumeric display
7. Channel selection buttons
8. TV/R button (switching between TV and radio mode)

*) CA modules and Smartcards are not included with this product

LED in the front panel display:

The LED lights up:

**Red** Receiver is in standby mode

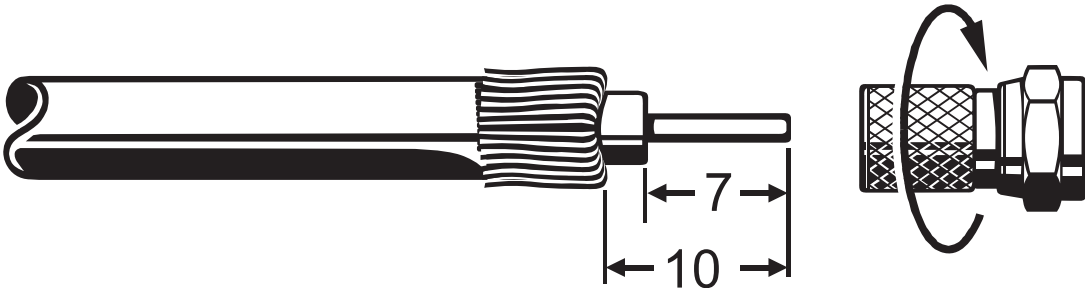
**Green** Receiver is in operation (archive hard disk connected and functional)

**Orange** A recording is running that was started from the standby mode (on completion of the recording the receiver switches back to the standby mode)

## Connecting the unit (Sat-IF connections)

**Connect the Sat IF inputs on the receiver to the satellite reception system. Use coaxial cable with an F standard connector.**

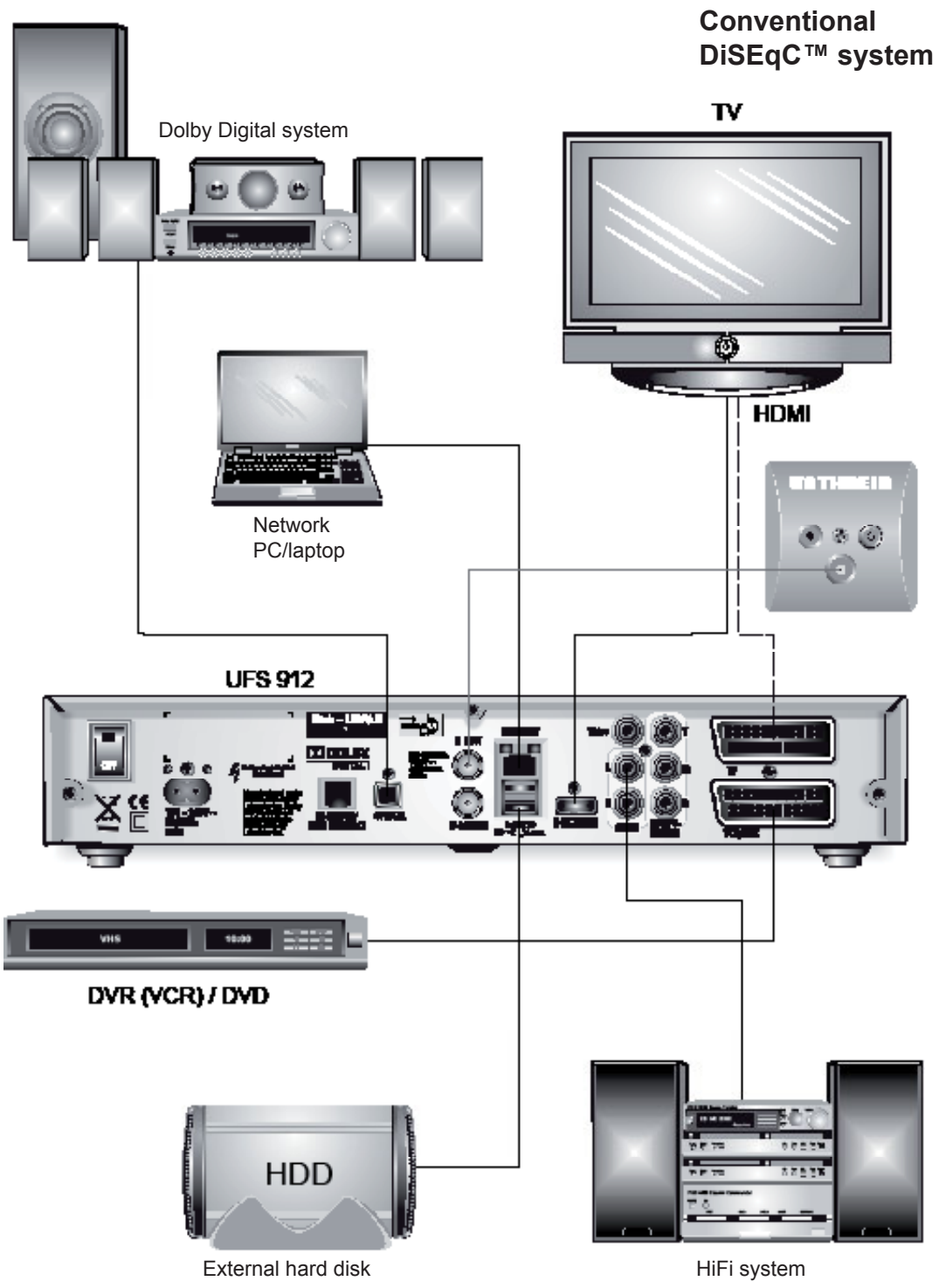
**If the F standard connectors are not yet fitted on the cables, strip the insulation from the cables as shown in the following illustration and carefully screw the F standard connectors on to the ends of the cables until they are securely attached.**




**When fitting the connector, make sure that no strands of the braid are touching the inner conductor, otherwise a short circuit will occur.**

**The quality of the reception signal depends on a good connection at this point!**

## Connection example



## TV and video recorder connection

Connect the satellite receiver (HDMI or alternatively TV Scart socket) and the TV set using an HDMI or Scart cable (see “Connection example”). If your TV is stereo, you can receive the sound in stereo via the HDMI or Scart connection.
For system reasons, the same video signals are present at both the TV Scart socket and also the video cinch output.
Connect the satellite receiver (VCR/AUX Scart socket) to the video recorder/DVR using a Scart cable. To play back a DVD, i.e. output the signal from the DVR through the receiver on the TV set, the TV set must also be connected to the receiver with a Scart cable. This is necessary as there is no upscaling of the video signal from the VCR Scart socket to the HDMI output.

**If you are recording using an external video recorder, remember not to operate the receiver during recording, otherwise all the on-screen displays will appear on your recording.**

## Audio connection

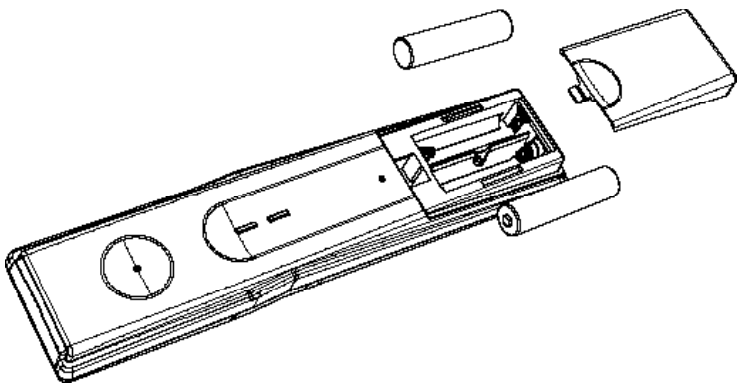
If you want to play the sound on your hi-fi system, connect the audio cinch sockets to the input sockets on the hi-fi system, using an appropriate cable (see “Connection example”).

## Optical digital output

The fibre-optic cable output is intended for the connection of a Dolby Digital system (see “Connection example”).

## Inserting batteries into the remote control

Remove the cover on the rear of the remote control. Insert the two batteries supplied into the remote control. Ensure correct polarity of the batteries; the + and – markings as indicated inside the battery compartment. Slide the cover back onto the housing until it locks in place.



## First installation

**Before you start to use the UFS 912, read the sections "Safety Instructions - Important Instructions" and "Connection and Getting Started" through to the item "First installation".**

**Do not connect the unit to the mains until all installation work has been properly carried out.**

**The guidance given in the "First installation" section assumes that the receiver has been properly connected as per the "Safety Instructions - Important Instructions" and "Connection and Setup" through to the "First installation" section.**

Required buttons on remote control for first installation:

| | | | |
|---|---|---|---|
| 0 ␣ ... 9 wxyz | Numeric entry | PIP (green) | Proceed to next step in the first installation |
| FAV (red) | Go back one step in the first installation | OK | Confirm the changed values/setting |
| | Select/change individual menu parameters, navigation | | |
| BACK | Cancel entry, go back | | |

First switch your TV set on and select the AV/HDMI input you have used to connect the receiver to your TV set. Switch on the receiver at the power switch on the rear of the unit. Undertake the first installation. If you have any questions or encounter problems, contact your specialist dealer.

**Always pay attention to the bar at the bottom of the on-screen display. This provides information on what to do next.**

Use the ▲ ▼ buttons to select the desired menu language for your UFS 912 and confirm your selection using the OK button. The selected language is indicated with a tick. The following languages are available: German, English, French, Italian, Spanish, Czech, Dutch, Polish, Turkish and Russian.

Press the PIP (green) button to move to the next menu.

The following on-screen display appears:

First Installation - Step 2 of 7
Tue 13 05
TV, Video and Audio
UFS 912 HDTV Receiver
Software Version : 2.00
Video Output via : HDMI / YUV
HDMI/YUV Resolution : 1080i
Force 576i : Off
HDCP : Off
Show 4:3 Event : Normal (Pillarbox)
Audio Format via HDMI : Decoded PCM
Auto Dolby Digital Output : Off
Press to set the video output via HDMI / YUV or SCART
Cancel
Back
Forward to the next step

Use the buttons here to select the basic settings for the video and audio output of the receiver to the TV set.

**For this, refer to the operating manual for your TV set and take care to select only those settings that your TV set can process.**

**Video Output via**

Select the connection on the receiver to which you have connected your television.
Either

**HDMI/YUV** **or** **SCART**

HDMI/YUV Resolution

Here you can select the video resolution that will be sent to your TV set. Either

- 1080i (resolution 1920 x 1080, half-screen images)
- 576p (resolution 720 x 576, full-screen images) or
- 720p (resolution 1280 x 720, full-screen images)
- Automatically

Force 576i (must be supported by the TV set otherwise you will not see a TV picture)

You can only/only need to make this setting if you have selected the setting “Automatic” for “HDMI/YUV Resolution”. If for a programme that is transmitted in the format 720 x 576 (standard TV), the original format is to be transmitted to the TV set, select the “On” setting. If the setting is “Off”, the programme may be automatically scaled-up to the HDTV format 720p by the receiver.

TV aspect ratio

Here you can select the TV picture format. Either

- 4:3 or
- 16:9

Picture format

Select the type of screen display, depending on your setting for the TV aspect ratio:

- TV aspect ratio “4:3”: Pan & Scan or Letterbox
- TV aspect ratio “16:9”: Always 16:9 or Automatic

HDCP

Select here whether HDCP (digital copy protection) is to be constantly set to “On” or is not to be activated, “Off”. To view some programmes it may be necessary for the setting to be set to “On”.

Show 4:3 Event

Here you can select the type of screen display mode for 4:3 broadcasts on a 16:9 TV set:

- Normal (Pillarbox)
- Stretched (Full Screen) or
- Zoom in (Pan & Scan)

Audio Format via HDMI

Here you can select the type of audio signal that is transmitted by the HDMI interface. Select the signal that your TV set can process:

- Decoded PCM or
- S/PDIF format

Auto Dolby Digital Output

Here you can select whether the receiver should automatically select the Dolby Digital soundtrack (if this is transmitted).

**Important instruction for picture output using “YUV”:**

**The “YUV” output can be used only if “RGB” is not selected as the output signal for the TV Scart socket!**
**In this case, select “Y/C” or “FBAS” as the output signal for the TV Scart socket.**

Press the PIP (green) button to move to the next menu.

TV-SCART-Output

Select the type of video signal at the TV Scart socket here. Select the signal that your TV set can process.

- FBAS (video) or
- RGB – Red/Green/Blue signal or
- Y/C – S-Video signal (luminance/chrominance)

VCR-SCART-Output

Select the type of video signal at the VCR Scart socket here. Select the signal that your external recorder can process.

- FBAS (video) or
- Y/C – S-Video signal (luminance/chrominance)

Auto Dolby Digital Output

Here you can select whether the receiver should automatically output the Dolby Digital signal (if this is transmitted).

The following on-screen display appears:

**The settings for the tuner configuration should be made by a specialist engineer for this reception system.**

Tip!

**If your receiver is connected as in the connection example (see illustration above), only one change/selection is necessary in the rest of the first installation. If you are not familiar with the details of your reception system, note the following:**

*In many cases the satellite reception system is a DiSEqC™1.0 system. This type of system is preadjusted. Confirm the current on-screen displays using the PIP (green) button. You then select, using the ▲▼ buttons the required satellites in the satellite selection (in Germany mostly ASTRA 19.2° East) and confirm the selection using the OK button. Confirm the rest of the on-screen displays during the first installation using the PIP (green) button. You cannot damage your reception system during this process! If you do not receive a TV picture at the end of the first installation, contact your specialist dealer.*

Tip!

**You should perform the tuner configuration/make changes yourself only if you are fully familiar with the particulars of your reception system.**

You can set up the tuner configuration for the following types of reception systems:

- Simple LNB
- DiSEqC™1.0
- DiSEqC™1.1
- One Cable (UAS 481)
- One Cable (EXR/EXU/User) or
- Motorized Antenna (DiSEqC™1.2/ DiSEqC™1.3)

**Continue as described in the first installation for the type of reception you have selected.**

## Simple LNB

The individual items are selected using the ▲▼ buttons. If you need to access sub-menus, they can be called up using the OK button. The changes to the current settings can be performed using the ◄► buttons or the number pad.

The following on-screen display appears:

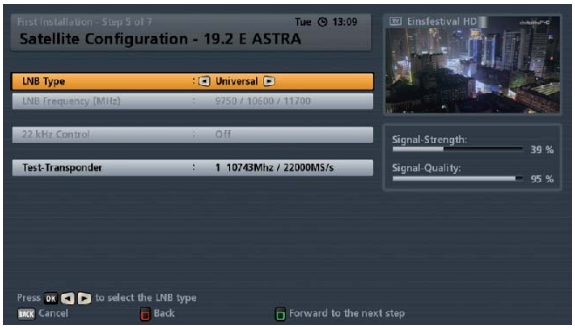
First Installation - Step 4 of 7
Tue 13:07
Select Satellites - Single LNB
1 19.2 E ASTRA 19.2E
2 13.0 E HOTBIRD 13.0E
3 42.0 E TURKSAT 42.0E
4 23.5 E ASTRA 23.5E
5 28.2 E ASTRA 28.2E
6 5.0 E SIRIUS 4 5.0E
7 7.0 E EUTELSAT W3A 7.0E
8 9.0 E EUROBIRD 9 9.0E
9 10.0 E EUTELSAT W1 10.0E
10 16.0 E EUTELSAT W2 16.0E
1 of 1 Satellites selected :
19.2E ASTRA
Press OK ▲▼ to choose the satellites
BACK Cancel
Back
Forward to the next step

**Select Satellites**

Use the buttons here to select the satellite from which the signal is present at the tuner, and press the OK button to confirm your selection.
The selected satellite will be identified with a tick.

Once you have selected the required satellites, press the PIP (green) button.

The following on-screen display appears:


First Installation - Step 5 of 7
Tue 13:09
Satellite Configuration - 19.2 E ASTRA
Einsfestival HD
LNB Type : Universal
LNB Frequency (MHz) : 9750 / 10600 / 11700
22 kHz Control : Off
Test-Transponder : 1 10743Mhz / 22000MS/s
Signal-Strength: 39 %
Signal-Quality: 95 %
Press OK ◄► to select the LNB type
BACK Cancel
Back
Forward to the next step

**Satellite Configuration**

Make the settings for the satellites here.

LNB Type:

If your reception system does not have a Universal LNB, use the ◄► buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal or
- Simple or
- User-defined

LNB Frequency (MHz):

You only need to specify this data if your LNB type is not “Universal LNB”. The data required differ for the settings “Simple” and “user-defined”. On this aspect, also refer to the documentation supplied with your LNB.

- Selection “Simple” LNB: Use the number pad to enter the LNB frequency
- Selection “user-defined”: Press the OK button to enter the required low, high and limit frequencies. The entry is made using the number pad

22 kHz control:

You only need to specify this data if your LNB type is “Simple”. The 22 kHz signal is needed to switch LNBs when using multi-feed reception and to switch between Low and High band.

- On
- Off

Test-Transponder:

Select the “Test-Transponder” field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings for this satellite, press the PIP (green) button.

The receiver will automatically display the screen for the channel search. Continue the first installation with the “Channel Search” section.

## DiSEqC™1.0

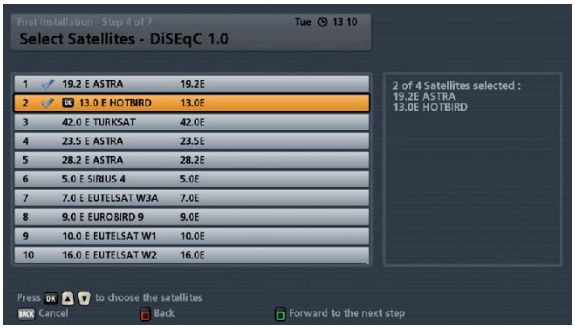
The individual items are selected using the ▲▼ buttons. If you require to access submenus, they can be called up using the OK button. The changes to the current settings can be performed using the ◄► buttons or the number pad.

Press the PIP (green) button.

The following on-screen display appears:

**Select Satellites**

Here, you can select up to four available satellites in the signal. Use the ✥ buttons to select the satellite you want and confirm your selection with the OK button.


First Installation - Step 4 of 7
Tue 13 10
Select Satellites - DiSEqC 1.0
1 19.2 E ASTRA 19.2E
2 13.0 E HOTBIRD 13.0E
3 42.0 E TURKSAT 42.0E
4 23.5 E ASTRA 23.5E
5 28.2 E ASTRA 28.2E
6 5.0 E SIRIUS 4 5.0E
7 7.0 E EUTELSAT W3A 7.0E
8 9.0 E EUROBIRD 9 9.0E
9 10.0 E EUTELSAT W1 10.0E
10 16.0 E EUTELSAT W2 16.0E
2 of 4 Satellites selected :
19.2E ASTRA
13.0E HOTBIRD
Press OK ▲▼ to choose the satellites
BACK Cancel
Back
Forward to the next step

The selected satellites will be identified with a tick.

When you have completed all settings, press the PIP (green) button.

The following on-screen display appears:

First Installation - Step 5 of 7
Tue 13:12
Satellite Configuration - 19.2 E ASTRA
Einsfestival HD
LNB Type : Universal
LNB Frequency (MHz) : 9750 / 10600 / 11700
DiSEqC Input : 1 of 4
DiSEqC Repeat : Off
22 kHz Control : Off
Test-Transponder : 1 10743Mhz / 22000MS/s
Signal-Strength: 39 %
Signal-Quality: 95 %
Press OK to select the LNB type
BACK Cancel
Back
Forward to the next step

**Satellite Configuration**

Make the settings for the first satellite for tuner 1 here.

LNB Type:

If your reception system does not have a Universal LNB, use the ◄ ► buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal or
- Simple or
- User-defined

LNB Frequency (MHz):

You only need to specify this data if your LNB type is not “Universal LNB”. The data required differ for the settings “Simple” and “user-defined”. Refer to the documentation supplied for your LNB.

- Selection “Simple” LNB: Use the number pad to enter the LNB frequency
- Selection “user-defined”: Press the OK button to enter the required low, high and limit frequencies. The entry is made using the number pad

DiSEqC™ Input:

- 1 of 4: For the first satellite on the tuner (item A on the system)
- 2 of 4: For the second satellite on the tuner (item B on the system)
- 3 of 4: For the third satellite on the tuner (item C on the system)
- 4 of 4: For the fourth satellite on the tuner (item D on the system)

DiSEqC™ Repeat:

The setting for how often the DiSEqC™ command must be repeated depends on the configuration of your reception system. Refer to the documentation for your reception system or seek assistance from a specialist engineer.

- Off — DiSEqC™ command is not repeated
- 1 — DiSEqC™ command is repeated once
- 2 — DiSEqC™ command is repeated twice
- 3 — DiSEqC™ command is repeated three times

22 kHz Control:

You only need to specify this data if your LNB type is “Simple”. The 22 kHz signal is needed to switch LNBs when using multi-feed reception and to switch between Low and High band.

- On
- Off

Test-Transponder:

Select the “Test-Transponder” field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings for this satellite, press the

(green) button.

If you have selected more than one satellite (max. four), the receiver will automatically skip to the settings for the second satellite. Now make the settings for the second satellite, followed by the third and fourth satellites as required, in the same way as described for the first satellite.

Once you have completed the settings for the satellites assigned, the receiver will automatically display the screen for the channel search. Continue the first installation with the “Channel Search” section.

## DiSEqC™1.1

The individual items are selected using the ▲▼ buttons. If you require to access submenus, they can be called up using the OK button. The changes to the current settings can be performed using the ◄► buttons or the number pad.

Press the PIP (green) button.

The following on-screen display appears:

**Select Satellites**

Here, you can select the available satellites (max. 64) in the signal. Use the buttons to select the satellite you want and confirm your selection with the OK button.
The selected satellites will be identified with a tick.

First Installation - Step 4 of 7
Tue 13:13
Select Satellites - DiSEqC 1.1
1 19.2 E ASTRA 19.2E
2 13.0 E HOTBIRD 13.0E
3 42.0 E TURKSAT 42.0E
4 23.5 E ASTRA 23.5E
5 28.2 E ASTRA 28.2E
6 5.0 E SIRIUS 4 5.0E
7 7.0 E EUTELSAT W3A 7.0E
8 9.0 E EUROBIRD 9 9.0E
9 10.0 E EUTELSAT W1 10.0E
10 16.0 E EUTELSAT W2 16.0E
2 of 64 Satellites selected :
19.2E ASTRA
13.0E HOTBIRD
Press OK to choose the satellites
BACK Cancel
Back
Forward to the next step

When you have completed all settings, press the PIP (green) button.

First Installation - Step 4 of 7
Tue 13:14
Select Satellites - DiSEqC 1.1
1 19.2 E ASTRA 19.2E
2 13.0 E HOTBIRD 13.0E
3 42.0 E TURKSAT 42.0E
4 23.5 E ASTRA 23.5E
5 28.2 E ASTRA 28.2E
6 5.0 E SIRIUS 4 5.0E
7 7.0 E EUTELSAT W3A 7.0E
8 9.0 E EUROBIRD 9 9.0E
9 10.0 E EUTELSAT W1 10.0E
10 16.0 E EUTELSAT W2 16.0E
6 of 64 Satellites selected :
19.2E ASTRA
13.0E HOTBIRD
42.0E TURKSAT
23.5E ASTRA
5.0E SIRIUS 4
...
Press OK to choose the satellites
BACK Cancel
Back
Forward to the next step

The following on-screen display appears:

First Installation - Step 5 of 7
Tue 13 14
Satellite Configuration - 19.2 E ASTRA
Einsfestival HD
LNB Type : Universal
LNB Frequency (MHz) : 9750 / 10600 / 11700
Uncommitted Switch : Disabled
DiSEqC Repeat : 1
SatPos : 1
Test-Transponder : 1 10743Mhz / 22000MS/s
Signal-Strength: 5 %
Signal-Quality: 0 %
Press OK to select the LNB type
BACK Cancel
Back
Forward to the next step

**Satellite Configuration**

Make the settings for the first satellites here.

## LNB Type:

If your reception system does not have a Universal LNB, use the ◄ ► buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal or
- Simple or
- User-defined

## LNB Frequency (MHz):

You only need to specify this data if your LNB type is not “Universal LNB”. The data required differ for the settings “Simple” and “user-defined”. On this aspect, also refer to the documentation supplied with your LNB.

- Selection “Simple” LNB: Use the number pad to enter the LNB frequency
- Selection “user-defined”: Press the OK button to enter the required low, high and limit frequencies. The entry is made using the number pad

## Uncommitted Switch:

Set the “Uncommitted Switches” here to match the configuration of your reception system. You can select “Off” or a value between “1” and “16” in single unit increments.

## DiSEqC™ Repeat:

The setting for how often the DiSEqC™ command must be repeated depends on the configuration of your reception system. Refer to the documentation for your reception system or seek assistance from a specialist engineer.

- Off DiSEqC™ command is not repeated
- 1 DiSEqC™ command is repeated once
- 2 DiSEqC™ command is repeated twice
- 3 DiSEqC™ command is repeated three times

SatPos:

Select the field “SatPos”. Set the “SatPos” here to match the configuration of your reception system. You can choose between: “Off” or a value between “1” and “4” in single unit increments.

Test-Transponder:

Select the “Test-Transponder” field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings for this satellite, press the

(green) button.

If you have selected more than one satellite (max. 64), the receiver will automatically skip to the settings for the second satellite. Now make the settings for the second satellite, followed by the other selected satellites, in the same way as described for the first satellite.

Once you have completed the settings for the satellites assigned, the receiver will automatically display the screen for the channel search. Continue the first installation with the “Channel Search” section.

## Motorized Antenna (DiSEqC™1.2/ DiSEqC™1.3)

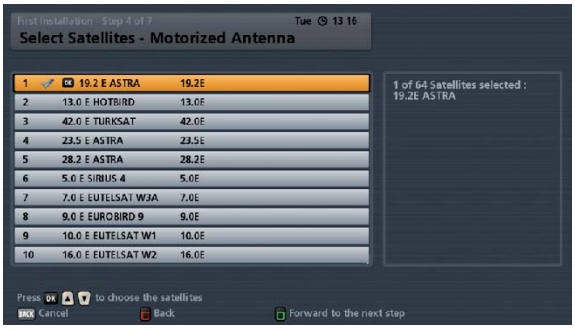
The individual items are selected using the ▲▼ buttons. If you require to access submenus, they can be called up using the OK button. The changes to the current settings can be performed using the ◄► buttons or the number pad.

Press the PIP (green) button.

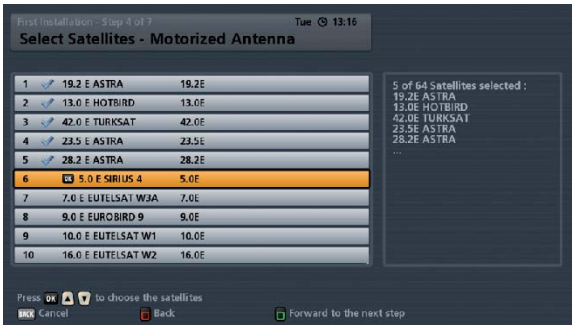
The following on-screen display appears:

**Select Satellites**

Here select up to max. 64 satellites that are in the signal. Use the buttons to select the satellite you want and confirm your selection with the OK button.
The selected satellites will be identified with a tick.


First Installation - Step 4 of 7
Tue 13 16
Select Satellites - Motorized Antenna
1 19.2 E ASTRA 19.2E
2 13.0 E HOTBIRD 13.0E
3 42.0 E TURKSAT 42.0E
4 23.5 E ASTRA 23.5E
5 28.2 E ASTRA 28.2E
6 5.0 E SIRIUS 4 5.0E
7 7.0 E EUTELSAT W3A 7.0E
8 9.0 E EUROBIRD 9 9.0E
9 10.0 E EUTELSAT W1 10.0E
10 16.0 E EUTELSAT W2 16.0E
1 of 64 Satellites selected :
19.2E ASTRA
Press OK to choose the satellites
BACK Cancel
Back
Forward to the next step

When you have completed all settings, press the PIP (green) button.


First Installation - Step 4 of 7
Tue 13:16
Select Satellites - Motorized Antenna
1 19.2 E ASTRA 19.2E
2 13.0 E HOTBIRD 13.0E
3 42.0 E TURKSAT 42.0E
4 23.5 E ASTRA 23.5E
5 28.2 E ASTRA 28.2E
6 5.0 E SIRIUS 4 5.0E
7 7.0 E EUTELSAT W3A 7.0E
8 9.0 E EUROBIRD 9 9.0E
9 10.0 E EUTELSAT W1 10.0E
10 16.0 E EUTELSAT W2 16.0E
5 of 64 Satellites selected :
19.2E ASTRA
13.0E HOTBIRD
42.0E TURKSAT
23.5E ASTRA
28.2E ASTRA
...
Press OK to choose the satellites
BACK Cancel
Back
Forward to the next step

## Motorized Antenna (DiSEqC™1.2)

The following on-screen display appears:

### Motor Control

Select the control type “DiSEqC™1.2”. For this, refer to the documentation for your motorized antenna.

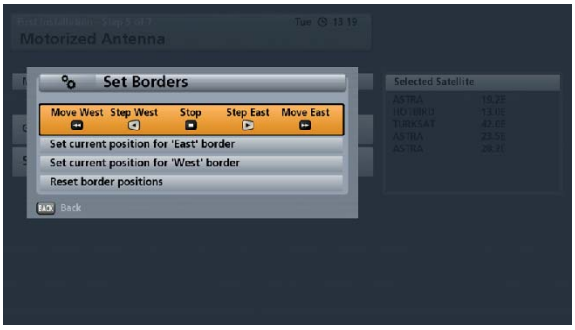
### Go to Null Position

Select the “Go to Null Position” field.

Press the OK button to instruct the turntable to move to its null position.

### Set Borders

Select the “Set Borders” field. In this menu you can set the limits for your turntable. This is particularly necessary if the turntable has only a restricted range in which it can turn before striking an obstruction (such as a wall or tree).




Press the OK button. The following on-screen display appears:

The following buttons allow you to control the movement of the turntable:

- Start slow rotation to the West
- Rotate to the West step by step
- Stop the current movement
- Rotate to the East step by step
- Start slow rotation to the East

Once you have reached the desired East/West limit, switch to the respective field “Set current position for “****” border” and press the OK button to confirm.

If you subsequently want to delete the set limits, switch to the “Reset border positions” field and press the OK button to confirm deletion of the limits. You can then set new values for the limits. Once you

have set all the limits, press the BACK button.

Press the PIP (green) button to move to the next menu.

The following on-screen display appears:

## LNB Type:

If your reception system does not have a Universal LNB, use the ◄ ► buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal or
- Simple or
- User-defined

## LNB Frequency (MHz):

You only need to specify this data if your LNB type is not “Universal LNB”. The data required differ for the settings “Simple” and “user-defined”. On this aspect, also refer to the documentation supplied with your LNB.

- Selection “Simple” LNB: Use the number pad to enter the LNB frequency
- Selection “user-defined”: Press the OK button to enter the required low, high and limit frequencies. The entry is made using the number pad

## Stop on Signal:

Select the “Stop on Signal” field. Here, you can select whether the motorized antenna should stop its rotary movement immediately on reception of a signal from the desired satellite. You can choose between “On” and “Off”.

Move Antenna:

Select the “Move Motorized Antenna” field. Here you can control the movements of the motorised antenna, using the following buttons:

Start slow rotation to the West

Rotate to the West step by step

Stop the current movement

Rotate to the East step by step

Start slow rotation to the East

Set the turntable so that both of the bars “Signal-Strength” and “Signal-Quality” on the right of the screen show the highest available percentage values.

Test-Transponder:

Select the “Test-Transponder” field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

Once you have achieved the best reception signal, press the

(green) button. The receiver will now save these values for this satellite and skips automatically to the setting for the next satellite.

If you have selected more than one satellite, the receiver will automatically skip to the settings for the second satellite. Now perform the settings for the second satellite, followed by the other satellite selections, in the same way as described for the first satellite.

Once you have completed the settings for the satellites assigned, the receiver will automatically display the screen for the channel search. Continue the first installation with the “Channel Search” section.

## Motorized Antenna (DiSEqC™1.3)

### Motor Control

Select the control type “DiSEqC™1.3”. For this, refer to the documentation for your motorized antenna.

### My Longitude

Select the field “My Longitude” and use the number pad here to enter your actual longitude.

### My Latitude

Select the “My Latitude” field and use the number pad to enter your current latitude.

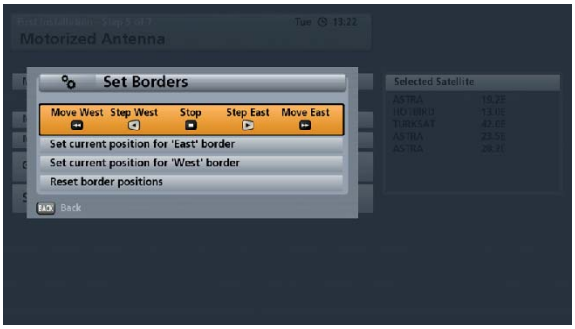
### Go to Null Position

Select the “Go to Null Position” field. Press the OK button to instruct the turntable to move to its null position.

### Set Borders

Select the “Set Borders” field. In this menu you can set the limits for your turntable. This is particularly necessary if the turntable has only a restricted range in which it can turn before striking an obstruction (such as a wall or tree).

Press the OK button. The following on-screen display appears:




The following buttons allow you to control the movement of the turntable:

- Start slow rotation to the West
- Rotate to the West step by step
- Stop the current movement
- Rotate to the East step by step
- Start slow rotation to the East

Once you have reached the desired East/West limit, switch to the respective field “Set current position for “****” border” and press the OK button to confirm.

If you subsequently want to delete the set limits, switch to the “Reset border positions” field and press the OK button to confirm deletion of the limits. You can then set new values for the limits. Once you have set all the limits, press the BACK button.

Press the PIP (green) button to move to the next menu.

The following on-screen display appears:

## LNB Type:

If your reception system does not have a Universal LNB, use the ◄ ► buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal or
- Simple or
- User-defined

## LNB Frequency (MHz):

You only need to specify this data if your LNB type is not “Universal LNB”. The data required differ for the settings “Simple” and “user-defined”. On this aspect, also refer to the documentation supplied with your LNB.

- Selection “Simple” LNB: Use the number pad to enter the LNB frequency
- Selection “user-defined”: Press the OK button to enter the required low, high and limit frequencies. The entry is made using the number pad

Test-Transponder:

Select the “Test-Transponder” field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings for this satellite, press the PIP (green) button. The receiver will now save these values for this satellite and skips automatically to the setting for the next satellite.

If you have selected more than one satellite, the receiver will automatically skip to the settings for the second satellite. Now perform the settings for the second satellite, followed by the other satellite selections, in the same way as described for the first satellite.

Once you have completed the settings for the satellites assigned, the receiver will automatically display the screen for the channel search. Continue the first installation with the “Channel Search” section.

## One Cable System

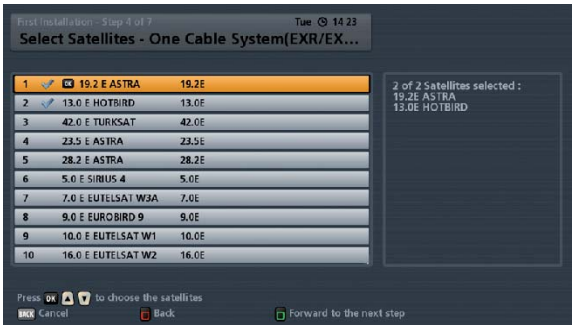
Use the ▲▼ buttons to select the single cable system used in your reception system: Either One Cable (UAS 481 - one cable LNB) or One Cable (EXR/EXU/User). Confirm your selection with the OK button. The selected single cable system will be identified with a tick.

Press the PIP (green) button.

The following on-screen display appears:

**Select Satellites**

Here select up to max. two satellites that are in the signal. Use the ◄►▲▼ buttons to select the satellite you want and confirm your selection with the OK button.
The selected satellites will be identified with a tick.


First Installation - Step 4 of 7
Tue 14:23
Select Satellites - One Cable System(EXR/EX...
1 19.2 E ASTRA 19.2E
2 13.0 E HOTBIRD 13.0E
3 42.0 E TURKSAT 42.0E
4 23.5 E ASTRA 23.5E
5 28.2 E ASTRA 28.2E
6 5.0 E SIRIUS 4 5.0E
7 7.0 E EUTELSAT W3A 7.0E
8 9.0 E EUROBIRD 9 9.0E
9 10.0 E EUTELSAT W1 10.0E
10 16.0 E EUTELSAT W2 16.0E
2 of 2 Satellites selected :
19.2E ASTRA
13.0E HOTBIRD
Press OK ▲▼ to choose the satellites
BACK Cancel
Back
Forward to the next step

**If you use a UAS 481 (single cable LNB) in your reception system, you are only allowed to select one satellite.**

When you have completed all settings, press the PIP (green) button.

## Continue as described in the first installation for the type of single cable reception you selected.

## One Cable System - EXR .../EXU .../User

The individual items are selected using the ▲ ▼ buttons. The changes to the current settings can be performed using the ◄ ► buttons or the number pad.

First Installation - Step 5 of 7
Tue 14:26
OneCable System - EXR ... / EXU ...
MDU : Off
Tuner PIN-Code : 000
Tuner : SCR(2)
Tuner SCR Frequency : 1516
Press ◄ ► to select the MDU
BACK Cancel
Back
Forward to the next step

**Refer to the documentation supplied with your system for the settings for the SCR, frequencies and any PIN assigned to the tuner. You will find there a printed list showing the assignment between the various SCRs and the respective transmission frequencies. It may happen that you cannot freely select the PIN for protection of individual frequencies; this also may be listed in the documentation for the single-cable components.**

**Please note also that multiple receivers cannot share the same frequencies/ channels - the receivers would interfere with each other.**

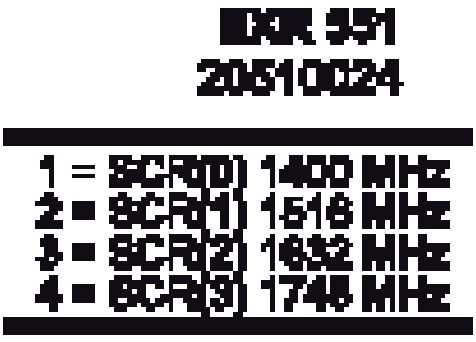
Secure channel with PIN:

If your single cable system allows the transmission frequency to be protected by entering a PIN, this is the menu where that can be done. No other receiver can then use this transmission frequency unless the PIN is entered.

Select the setting “On”. You can then use the number pad to enter a PIN code (0-255) in the line underneath “Tuner PIN-Code”.

Tuner (transmission channel):

Select a free available transmission channel (SCR 0 - SCR 7).




Tuner SCR Frequency

(transmission frequency:)

Select here one of the free available transmission frequencies.

See example on the right (EXR 551) for assignment of a transmission channel to a transmission frequency.

When you have completed all settings, press the PIP (green) button.

The following on-screen display appears:

## LNB Type (settings):

If your reception system does not have a Universal LNB, use the ◄ ► buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal or
- Simple or
- User-defined

## LNB Frequency (MHz):

You only need to specify this data if your LNB type is not “Universal LNB”. The data required differ for the settings “Simple” and “user-defined”. On this aspect, also refer to the documentation supplied with your LNB.

- Selection “Simple” LNB: Use the number pad to enter the LNB frequency
- Selection “user-defined”: Press the OK button to enter the required low, high and limit frequencies. The entry is made using the number pad

## DiSEqC™ Input:

Select the “DiSEqC™ Input” field. Here, you set the “SatPos” for the satellite displayed on the screen, to match the configuration of your reception system. You can choose between: “1/1”, “1/2” and “2/2”, depending on whether at “Satellite selection” you selected one or two satellites.

## Test-Transponder:

Select the “Test-Transponder” field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

If no connection can be established to the single-cable system, check your settings (frequency and transmission channel) and if necessary call for expert help.

When you have completed all settings for this satellite, press the PIP (green) button. The receiver will now save these values for this satellite and skips automatically to the setting for the next satellite. Now make the settings for the second satellite in the same way as described for the first satellite.

Once you have completed the settings for the satellites assigned, the receiver will automatically display the screen for the channel search. Continue the first installation with the “Channel Search” section.

## OneCable System - UAS 481

The individual items are selected using the ▲▼ buttons. If you need to access sub-menus, they can be called up using the OK button. The changes to the current settings can be performed using the ◄► buttons or the number pad.

First Installation - Step 5 of 7
Tue 14:40
OneCable System - UAS 481
Tuner : SCR(2)
Tuner SCR Frequency : 1632
Press ◄► to select the MDU
BACK Cancel
Back
Forward to the next step

**For the settings please refer to the documentation with the UAS 481.**

**No frequency can be used by more than one receiver. The receivers would interfere with each other.**

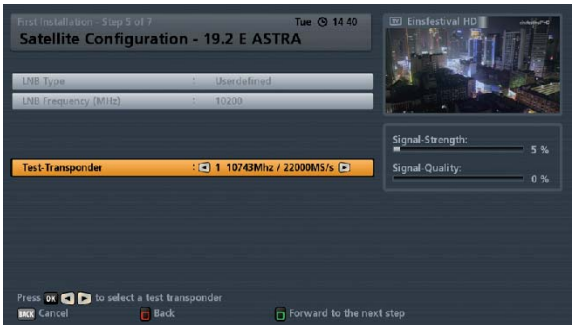
### Tuner (transmission channel):

Select a free available transmission channel (SCR 0 - SCR 3).

### Tuner SCR Frequency (transmission frequency:)

This setting is already pre-set on the UAS 481 and cannot be changed.

When you have completed all settings, press the PIP (green) button. The following on-screen display appears:




### LNB Type/LNB Frequency:

These settings are pre-set for the UAS 481 and cannot be changed.

### Test-Transponder:

Select the “Test-Transponder” field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.
If a connection to the one cable system cannot be established, check your settings (frequency and transmission channel) and if necessary call for expert help.

When you have completed all settings for the satellite, press the PIP (green) button.

The receiver will automatically display the screen for the channel search. Continue the first installation with the “Channel Search” section.

## Channel Search

The individual items are selected using the ▲▼ buttons. Changes to the current settings can be made using the ◄► buttons.

If you do not wish to perform a channel search, press the PIP (green) button and continue with the section “Time Setup”.

If you want to perform a channel search, use the ◄► buttons to select “Yes”.

First Installation - Step 6 of 7
Tue 14:41
Channel Search
Preassigned in List
450 TV Channels
627 Radio Channels
Execute channel search : No
Country Select : Deutschland
Satellite : All
Channel Search Mode : free & scrambled
Network Search : On
Press ◄► to enable or disable the Channel search
BACK Cancel
Back
Forward to the next step

The following on-screen display appears:

First Installation - Step 6 of 7
Tue 14:42
Channel Search
Preassigned in List
450 TV Channels
627 Radio Channels
Execute channel search : Yes
Country Select : Deutschland
Satellite : All
Channel Search Mode : free & scrambled
Network Search : On
Press ◄► to enable or disable the Channel search
BACK Cancel
Back
Forward to the next step

**Country Select**

Using the ◄► buttons you can select whether the channels found after the search are to be sorted using a factory channel list for the selected country. Currently this feature is only available for Germany, Austria and Switzerland.

**Satellite**

You can now use the ◄► buttons to select between the individual satellites you have set up, or choose the setting “All”. If “All” is selected, all the individual satellites you have set up will be searched for new channels. Make sure your reception system is aligned to this/these selected satellite(s).

**Channel Search Mode**

Use the ◄► buttons to select the type of channels that are to be searched for. You have three options:

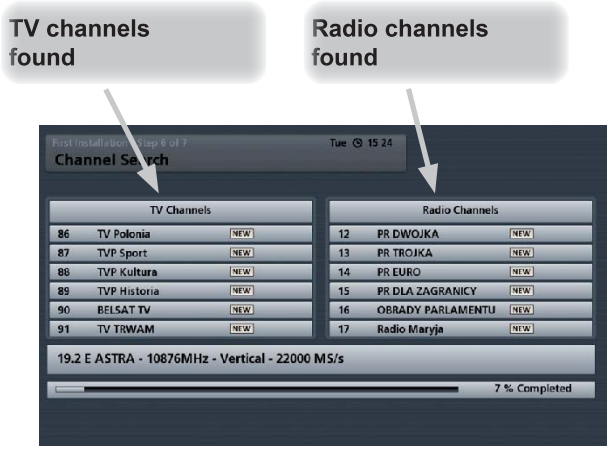
- “free & scrambled” All channels are searched for
- “free channels only” Only free-to-air channels are searched for
- “scrambled only” Only encrypted channels are searched for

**To view encrypted channels you need an appropriate CA (Conditional Access) module and a valid smart card together with a valid subscription to the relevant Pay TV provider.**

**Network Search**

Use the ◄ ► buttons (On/Off) to select whether a network search should be performed. If you set the “Network Search” to “Off”, only the factory default transponders for the satellite(s) you previously selected will be searched for new as yet unsaved channels. If you set the “Network Search” to “On”, the transponder network enables additional transponders that have not yet been stored to be located. They are then stored and searched for new channels in the same way as the existing transponders.

When you have completed all settings, press the PIP (green) button. The following on-screen displays appear (example):




During the search you will see the following on-screen display (example):

New channels found are identified by the suffix “NEW” (see screenshot example, right).

**Note:**
*You can cancel the search at any time by pressing the BACK button.*

After completion of the search, you will see the following on-screen display (example):

Press the OK button. The newly found channels are added at the end of the existing complete list.

## Time Setup

The individual items are selected using the ▲▼ buttons. Changes to the current settings can be made using the ◄► buttons.

**Time Mode**

Here you can select whether the time information should be obtained by the receiver automatically from a specific channel that you select or whether the time information should be entered manually. Either

- Automatically or
- Manual

**Set Local Time**

Here you can select the local time offset to UTC (formerly GMT) (e.g. for Germany: + 1 hour). You can set the offset in 30 minute steps. The maximum offset is 11 hours and 30 minutes (+ and -).

**Summer Time (time setting)**

Here you can select whether the receiver should automatically change over to and from summer and winter time. The “Manual” setting only makes sense if you also selected “Manual” for the selection item “Time Mode”, since otherwise the time information is obtained automatically by the receiver. Either

- Automatically or
- Manual

**Time setup channel (only works if the time setup is set to “Automatical”)**

Here you can select the channel from which the receiver should obtain the time information. Press the OK button to call up a channel list from which you can select the channel you want using the cursor (✣) buttons. Confirm your selection with the OK button.

**Setup Time now**

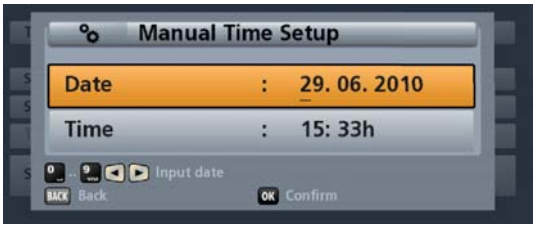
Press the OK button.

Depending on the desired time setup option (Automatic/Manual) the following on-screen display then appears:

**Automatic**

You need not enter any further data, the receiver will automatically update the date and time.

**Manual**




Use the number pad or the ◄ ► buttons to enter the correct date. Then use the ▲ ▼ buttons to switch to the "Time" field and use the number pad or the ◄ ► buttons to enter the correct time. Then use the OK button to confirm your entry.

When you have completed all settings, press the PIP (green) button, to complete the first installation. If you have already connected an external hard disk to the rear of your unit, the receiver automatically displays the message "Set up the archive hard disk" (see next page). If no external hard disk is connected to your receiver, this completes the first installation and the receiver goes into TV mode.

## Set up the archive hard disk

**To make recordings using the UFS 912 and utilise the timeshifting and recording archive functions you must connect an external hard disk *) to the rear of the receiver (USB) and set it up as explained in following.**

*) Tested only with hard disks from the Kathrein product range (see also: www.kathrein.de → Service → FAQs)

If you now wish to set up an archive hard disk, press the OK button; if not, press the BACK button to abort this procedure.

Set up the archive hard disk
In order to use the recording functionality of the receiver, you need a hard disk. Would you like to set this up now?
BACK Cancel
OK Set up the archive hard disk

Now remove all hard disks or USB sticks from the receiver and then confirm by pressing the OK button, or pressing the BACK button to abort this procedure.

Set up the archive hard disk (1/3)
Remove all external hard disks or USB sticks from the receiver and the confirm by pressing the OK key.
BACK Cancel
OK Set up the archive hard disk

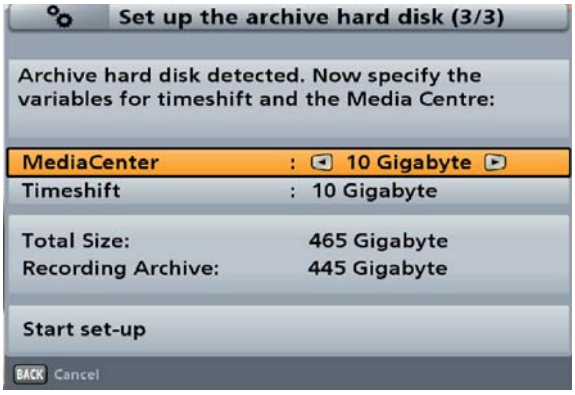
If you have aborted this procedure the following on-screen display appears (see screenshot on the right). Press the OK button to revert to the TV picture.

Now connect the hard disk that is to be set up as an archive hard disk to the receiver.

Set up the archive hard disk (2/3)
Now connect the archive hard disk to the receiver.
Attention: All data on the hard disk will be deleted!
BACK Cancel

The following on-screen display appears (see screenshot on the right):

Now set the respective capacities for the various areas (media center and timeshift). The respective lines are selected using the ▲▼ buttons. Make the settings using the ◄► buttons. The storage volume that you assign to each area is dependent on the size of the hard disk being used.


Set up the archive hard disk (3/3)
Archive hard disk detected. Now specify the variables for timeshift and the Media Centre:
MediaCenter : 10 Gigabyte
Timeshift : 10 Gigabyte
Total Size: 465 Gigabyte
Recording Archive: 445 Gigabyte
Start set-up
BACK Cancel

In the “Recording Archive” line you will see how must hard disk storage volume is reserved for recordings. The capacity remaining for the recording archive is adjusted automatically depending on the storage volume assigned to the media center and timeshift area (max. 15 Gigabytes). Use the ▲▼ buttons to switch to the “Start set-up” line and confirm by pressing the OK button to start the process.

During the set-up the following on-screen display appears (see screenshot on the right):

After a successful set-up the following on-screen display appears (see screenshot on the right):

Press the OK button to confirm and close the procedure.

Congratulations!
Archive hard disk has been set up successfully. After restarting the receiver you can use the recording functionality. Press the OK key to restart the receiver.
OK Restart the receiver

Tip!

On completion of a successful first installation (TV picture can be seen) we recommend having the receiver search for any available software update. It is a prerequisite that you have selected (included in the selection) the satellite ASTRA 19.2° East in the first installation. Press the MENU button to switch to the main menu. Use the ▲▼ buttons to select “Service Menu” and confirm by pressing the OK button. Use the ▲▼ buttons to select “Software Update by Satellite” and confirm again by pressing the OK button. The receiver will now automatically start to search for new software. For information on the rest of the update process, please refer to the section “Main menu”, “Service menu”, “Software update by satellite” in these instructions.

Tip!

# General Operating Instructions

**In this section we would like to offer you some basic tips and explanations about using the UFS 912. These are not specific to any one menu, rather they can be used as help and orientation in practically all menus.**

## Alphanumeric entries

For entries such as names of favorites or search expressions, use the keyboard displayed on the screen (see example screenshot).

The letters assigned to the number pad also apply to your remote control. They are used very similarly to a mobile phone. The following buttons can be used for entry or to select an action:

| Button | Assigned character/action | | | | |
|---|---|---|---|---|---|
| Press | 1 x | 2 x | 3 x | 4 x | 5 x |
| 1 .:@ | . | ß | ? | ! | 1 |
| 2 abc | a | b | c | 2 | ä |
| 3 def | d | e | f | 3 | |
| 4 ghi | g | h | i | 4 | |
| 5 jkl | j | k | l | 5 | |
| 6 mno | m | n | o | 6 | ö |
| 7 pqrs | p | q | r | s | 7 |
| 8 tuv | t | u | v | 8 | ü |
| 9 wxyz | w | x | y | z | 9 |
| 0 ␣ | 1 x space 2 x 0 | | | | |

| | |
|---|---|
| ■ | Switch to qwertz keyboard (control using the arrow buttons and the OK button) - see screenshot on the right |
| ◄ | Last character is deleted |
| MENU | Switch between upper case and lower case letters |
| OK | Confirm the term entered |
| BACK | Cancel entry without saving |
| TEXT | Cancel entry without saving |

Switch between letters and numbers/special characters

After you have entered the desired expression, press the OK button in order to load the name/search expression BACK or the TEXT button to abort the entry.

## Editing and selection options in the menus

In some menus/on-screen displays this box is shown with a particular colour gradation. Each colour gradation stands for a specific view/selection. The colours assigned to the buttons are shown in the table below. Where the functions of these buttons are assigned for the current menu/view, they are also shown in the line at the bottom of the on-screen display.

| | Colour | Button on the remote control |
|---|---|---|
| | Green | PIP |
| | Yellow | OPT |
| | Red | FAV |
| | Blue | TV/R |

**Always pay attention to the bar at the bottom of the on-screen display. This provides information on what to do next.**

In many menus, all the editing and selection options for that menu are shown at the bottom of the on-screen display. Where a specific remote control button is required for executing them or calling them up, this also will be shown (see example screenshot above).

# Basic Operation in TV or Radio Mode (Live Operation)

## Remote control for live operation (TV/Radio)

Currently unavailable

Operation (on)/standby (off)

Number pad

Call up teletext

Call up main menu

Volume “+” (louder)

Volume “-” (softer)

Channel selection

Mute

Call up channel information (info banner and detailed information)

FAV = Call up favorites list

PIP = Picture-in-picture function

OPT = Call up options menu

TV/R = Switch between TV/radio mode

0 = If an external device is connected to the VCR Scart socket, the TV signal present at the VCR Scart socket can be looped through to the TV Scart socket. Pressing the 0 button more than once toggles between the TV Scart mode and the VCR Scart loop-through mode.

# Basic Operation in TV or Radio Mode (Live Operation)

Call up EPG (Electronic Programme Guide)

Call up the recording archive

= Navigation/channel or change channel option

OK = Call up channel list, confirmation/call up selection

Select last channel called up, exit on-screen displays/ menus step by step

Call up media center (MP 3, JPEG)

= Fast rewind

= Start playback/ Call up recording archive

= Fast forward

= Start timeshift (freeze-frame)/pause

= Start recording (OTR)

= Stop playback/ timeshift/record

## Changeover between TV and Radio operation

The changeover between TV and radio operation is performed using the TV/R (blue) button.

## Setting the volume

The volume is adjusted using the VOL + VOL - buttons.

## Channel selection

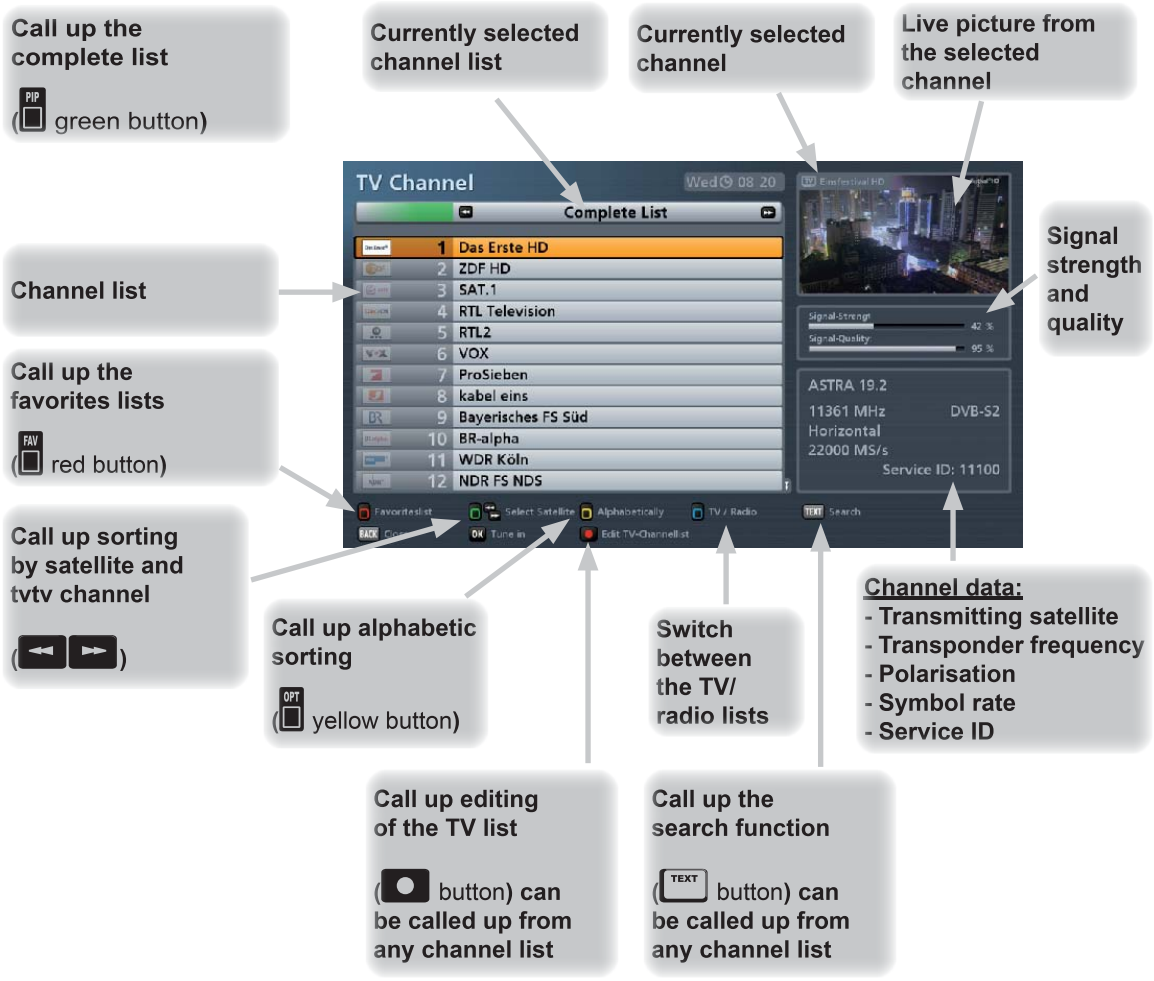
### Direct channel selection

The + - button allows the channel to be selected from the sorted version of the currently selected channel list/favorites list. If the channel slot in the channel list is known, the desired channel can also be called up directly by entering the channel slot, using the number pad on the remote control (example: ASTRA HD+ is at channel slot 10 in the currently selected channel list - to call it up, successively press the 1 and 0 buttons on the remote control).

# Basic Operation in TV or Radio Mode (Live Operation)

## Channel selection from the channel list

Press the OK button to open the channel list. The following on-screen display appears:




**Information on selecting favorites lists:**

*You can also call up the favorites lists directly from TV screen, using the FAV (red) button. Then use the cursor ( ) buttons to select the desired favorites list and confirm your selection using the OK button. The receiver automatically selects the first channel saved in the favorites list and returns to the TV screen.*

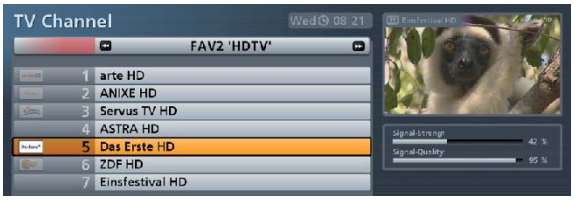
*You can now select the sequence of channels saved in the selected favorites list, using the + - buttons.*

# Basic Operation in TV or Radio Mode (Live Operation)

Now use the respective coloured button to select the category in which you wish to open a channel list:

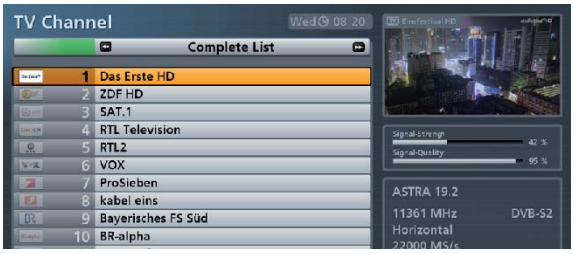
FAV (red) button: Call up the "Favoriteslist" category

Contains the following channel lists:
- Favoritelists 1-8




PIP (green) button: Call up the "Complete List" category

Contains the following channel lists:
- Complete list
- Channel lists sorted by satellite




OPT (yellow) button: Call up the alphabetically sorted lists

Contains the following channel lists:
- A-Z
- Z-A
- 0-9
- Ordered by individual letters

Channel list selection:

Use the ◄ ► buttons to scroll through the currently available channel lists. If you want to see an overview of the currently available channel lists, press the coloured button for the selected category again; you will then obtain the following on-screen display (for example the favorites lists):

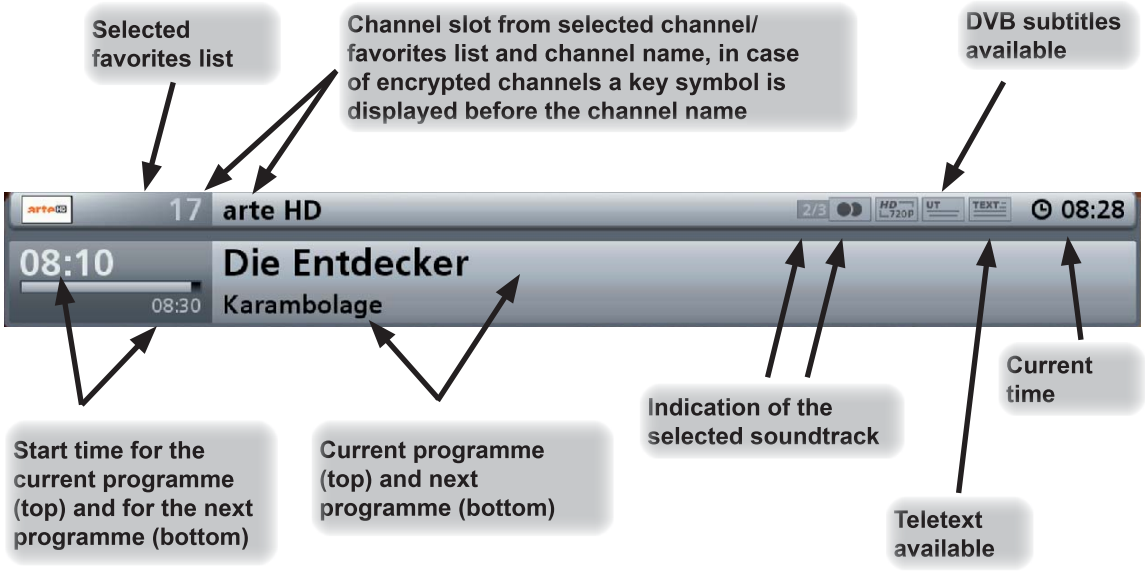
The desired channel list is selected using the cursor buttons (✥) and called up using the OK button.

Select the channel:
After selecting the desired channel list, the desired channel is selected using the cursor (✥) buttons and called up using the OK button. To exit the channel list and return to the TV picture, press the OK button again, or press the BACK button.

# Basic Operation in TV or Radio Mode (Live Operation)

## Channel information

Channel information is shown for a few seconds each time the channel is changed (this can be changed under “Settings”, “User Defined Settings”, “Customize Screen Menu”) or displayed continuously by pressing the i button.


Selected favorites list
Channel slot from selected channel/ favorites list and channel name, in case of encrypted channels a key symbol is displayed before the channel name
DVB subtitles available
17
arte HD
08:28
08:10
08:30
Die Entdecker
Karambolage
Start time for the current programme (top) and for the next programme (bottom)
Current programme (top) and next programme (bottom)
Indication of the selected soundtrack
Current time
Teletext available

The following icons (symbols) may appear in the channel information:

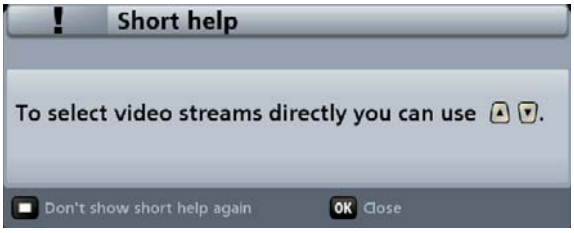
| | | | |
|---|---|---|---|
| HD 1080i | Broadcast transmitted in HDTV standard 1080i | | Audio selection is: Stereo |
| HD 720P | In HDTV standard 720p transmission broadcast | UT | Subtitles are available |
| OPT | Portal channel (channel options available) | TEXT | Teletext is available |
| DOLBY DIGITAL | Dolby Digital soundtrack selected | LIVE | Receiver registers the programme as a live broadcast |
| | Audio selection is: mono | FILM | Receiver registers the programme as a film |
| | Audio selection is: Mono left | SERIE | Receiver registers the programme as a series |
| | Audio selection is: Mono right | | |

# Basic Operation in TV or Radio Mode (Live Operation)

## Calling up channel options

If the channel OSD contains the following icon , this is a portal channel. Press the (yellow) button, use the buttons to select “Select Video stream” and press the button to confirm your selection. The following on-screen display then appears (example):

Use the buttons to select your desired channel option, and press the button to confirm your selection. The following on-screen display appears:




Press the button if you want to be reminded of this function next time, or the button, if you don't want to see this message again.

After selecting a channel option using the buttons, skip through the other channel options in your selected portal channel.

# Basic Operation in TV or Radio Mode (Live Operation)

## Select Audio track

If the channel banner displays “1/3” in front of the symbol for the selected soundtrack, this tells you that you have currently selected the first of the three available soundtracks. Press the OPT (yellow) button, use the ▲▼ buttons to select “Select Audio track” and press the OK button to confirm your selection. The following on-screen display then appears (example):

Use the cursor (✥) buttons to select your desired soundtrack option, and press the OK button to confirm your selection.

## Subtitle selection

If the channel OSD includes the following symbol for subtitles UT, you can call up the “Subtitle” function as follows: Press the OPT (yellow) button twice, use the ▲▼ buttons to select “Subtitle” and press the OK button to confirm your selection. The following on-screen display then appears (example):

Use the ▲▼ buttons to select the desired subtitles and confirm by pressing the OK button. The receiver will automatically return to the TV picture.

# Basic Operation in TV or Radio Mode (Live Operation)

## Teletext

This symbol TEXT in the channel OSD shows you whether teletext is available for the selected channel.

When you press the TEXT button, the receiver processes the teletext service data for your TV set to display, even when the signal is encrypted.

During the search, the page which is being searched for is displayed in the top left-hand corner with the time and date displayed at the top right. When the search is finished, the teletext broadcast by the relevant encrypted channel provider appears.

You have several options for opening the desired pages:

- Entry using the number pad
- Scroll backwards and forwards using the ▲ ▼ buttons
- Scroll up and down in the sub-pages (e.g. 1/2 and 2/2) using the ◄ ► buttons

100 100 ZDFtext Di 29.09.09 12:16:25
ZDF
Mit dem Zweiten
sieht man besser
Berliner SPD gegen Steinmeier ... 120
RWE: Ökogeld bei AKW-Verlängerung 123
Vietnam: 100.000 fliehen vor Sturm 125
UN-Bericht kritisiert Gaza-Krieg 129
VfB will Aufwärtstrend nutzen ... 204
Hertha BSC feuert Trainer Favre . 210
Felipe Massa gibt wieder Gas .... 213
12.15 drehscheibe Deutschland 363
13.00 ARD-Mittagsmagazin ..... 364
Inhalt (A-Z) 101
Service
Nachrichten . 112 Recht & Justiz 525
Programm .... 300 Koch-Tipp ..... 546
Service ..... 500 Gewinnspiele .. 565
Wahl SH
berblick
Index A-D
Nachrichte

- Select using the options indicated by the coloured buttons FAV (red), PIP (green), OPT (yellow) and TV/R (blue) listed across the bottom of the screen

Press BACK or TEXT to exit teletext.

## Automatic timeshift

The UFS 912 provides a special function here. As soon as you switch to a channel, the receiver automatically starts recording the programme you are viewing to the hard disk in the background. When you change channel again, this stored data is deleted and background recording begins again.

This continuous background recording by the receiver offers you the following options:

- Rewind back to the time when you switched to this channel, and also fast forward up to the live signal ( buttons)
- Pause function ( button), the picture is frozen
- Going forward and back in 30-second steps ( buttons)

If, after viewing a programme for a time, you decide you want to record it, you can do so as from the point you switched to that channel (function only available from software version 2.0, see also “OTR”).

Precondition: *In the “Settings”, “User-Defined Settings”, “PVR Settings” menu the “Automatic Timeshift” option must be set to “On” and the “Default Record Duration” selection must allow sufficient time for the timeshift recording.*

For this see also the sections “Main Menu”, “Settings”, “User-defined settings”, “PVR settings”.

**Function can be used only when the archive hard disk is connected and has been set up *).**

*) Tested only with hard disks from the Kathrein product range (see also: www.kathrein.de → Service → FAQs)

## One-Touch Recording (OTR) - recording directly to a hard disk *)

To start recording directly to the hard disk, press the ● (red dot) button. The following on-screen display appears (example):

Use the ▲▼ buttons to select the lines to be changed; make the changes using the ◄► buttons.

**Recording:**

You have the following selection options:

- "as from now" Recording is performed from the present time
- "later" Recording begins at the start time entered in the "Start" line
- "From start" Recording is performed from the time since when the current channel has been watched without interruption (option available only if automatic timeshift is activated, see "Automatic timeshift")

**Start:**

You only need to enter the start time for a recording if you have selected the recording type "later".

**End:**

The end of the recording is determined automatically by the receiver, based on the available EPG data. If you wish you can however change this manually.

**Duration:**

The duration of a recording is determined automatically by the receiver, based on the start and finish times. You can however correct the duration manually. In this case the receiver automatically adjusts the end time to correspond to the new recording duration. The start time of the recording remains unchanged.

Press the OK button to start the recording - you can cancel it by pressing the BACK or the ● (red dot) button. To abort the recording after it has started, you must press the ■ button, use the ▲▼ buttons to select the recording to be aborted and press the OK button to confirm the action.

*) Tested only with hard disks from the Kathrein product range (see also: www.kathrein.de → Service → FAQs)

## General information about the Premium tvtv EPG

**What is the Premium tvtv EPG?**

The Premium tvtv EPG (referred to below just as EPG) represents the latest generation editorially prepared programme guide. It provides all the EPG information for around 100 TV channels free of charge, without you having to change channel, and also offers schedule information up to two weeks ahead.

**Which channels are supported by EPG?**

You can see in the channel list which channels are supported by the EPG (see “Basic Operation in TV or Radio Mode (Live Operation)” section, “Channel selection from the channel list”. On the one hand the broadcaster logos are indicated in front of the channels supported, on the other hand you have the facility of displaying a tvtv channel list (this is operational only once an EPG grabbing has been performed).

**What restrictions are there with EPG?**

Because of the large amount of data being transmitted, the receiver cannot store all the data for the channels supported by EPG. Therefore the receiver configuration is factory-set to accept tvtv data for only a limited number of channels. Refer to “Editing channel lists”, “Editing channels (channel lists)”, “tvtv (on/off)” for details of how to edit this pre-configured list. The more channels are added to this list, the less tvtv data is available for them, due to system restrictions.

**Where does the EPG data come from?**

The EPG is broadcast over the ASTRA satellite at the frequency of 12,603.75 MHz, with a symbol rate of 22 MSymb/s and horizontal polarisation (18 V). If you have accidentally deleted the transponder for this frequency, you will need to start a new satellite and transponder search for the ASTRA satellite (see “Channel Search”).

**Is there any reason external to the receiver that might mean EPG does not work?**

With non-Kathrein reception systems it may happen that the EPG data cannot be transmitted, because the necessary transponder (12,603.75 MHz, symbol rate 22 MSymb/s, horizontal) is not transmitted by that system.

**What about EPG data for broadcasters that are not broadcast using ASTRA?**

For broadcasters that broadcast using the “HOTBIRD 13° East” satellite you must perform an additional channel search using that satellite. exception: Broadcasters supported by tvtv, the EPG data for these broadcasters is also drawn via ASTRA.

**You will only see information on the current or subsequent programmes in the EPG if this data is supplied/transmitted by tvtv or by the channel provider. If no EPG data is available, the receiver shows the message "no data available" instead of showing information on the current program.**

**The EPG data are not available immediately after first installation. The data are only updated/loaded after the first EPG update at night or the first time you switch the receiver to standby mode. The data are saved on the archive hard disk that is connected and has been set up (see Main Menu/Interfaces/HDD Management/Make dedicated HDD). These data are loaded after the receiver is started.**
**The full scope of the EPG is accessible only when the archive hard disk is connected and has been set up.**

## Calling up the EPG

The EPG is called up by pressing the EPG button. You will automatically see the view you selected in the menu ("Settings", "User Defined Settings", "EPG Setup") - irrespective of which view you selected last time before exiting the EPG. The following on-screen display appears (example):

**Note:** *If you selected a favorites list before opening the EPG, the EPG will only show the data for the channels that are included in this favorites list. Press the EPG button again to display the EPG for all channels.*

## Selection options (remote control buttons in the EPG)

- FAV (red) button
  Call up the recording schedule (display of all pre-programmed recordings/reminders)

- ◄◄ ►► button
  Navigation in the individual views (e.g. 15 minutes skip forward in the “Current” view)

- OPT (yellow) button
  Call up a preview of the currently selected channel (Program guide)

- TV/R (blue) button
  Call up the category selection (sorting the programs by categories such as movies, sport, series ...)

- + / - button
  (P+) to jump forward 24 hours in the EPG, (P-) to jump backward 24 hours in the EPG (e.g. into “Current” and into “Preview”)

- OK button
  Select the currently selected channel in all views. Pressing the OK or EXIT button again closes the EPG and the selected channel is shown again on the TV screen

- ● (red dot) button
  Add a programme to the recording settings

- TEXT button
  Search for a particular programme or programme content (e.g. key word search from the detail information) or other programme times (enter the search expression using the number pad on the remote control, see also the section “Operating Instructions”, “Alphanumeric entries”)

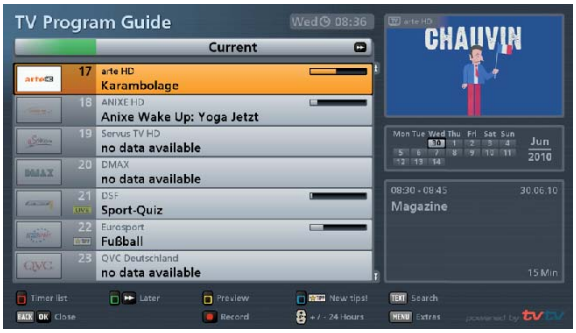
- i button
  Shows any further information on the selected programme

- MENU button
  Call up the tools menu

Navigation within each view is always performed using the cursor ( ) buttons. The ▲ ▼ buttons allow you to select individual channels/programs, and the ◄ ► buttons allow you to scroll from page to page in the currently selected list. Pressing the EPG or BACK button exits the EPG and returns to the TV picture.

## Views using the EPG

### “Current” view




The “Current” view can be called up at any time in EPG by pressing the PIP (green) button.

In the “Current” view you can see all channels displayed in the order of the complete channel list. Provided that EPG data have been supplied/transmitted by tvtv or by the channel provider, the receiver shows the current programme being shown on each channel, with start time, finish time, and progression bar.

You can use the cursor buttons (✣) or the number pad to select the desired channel and, if available, you can use the i button to open further information on the desired programme.

If you want to view the programme currently being shown on a channel, you need not exit the EPG, just select the desired channel and press the OK button. At the top right of the screen you will see the current TV picture for the selected channel. The picture however only appears once the OK button has been pressed. Previously what you saw was the picture of the old channel that had previously been selected, even though the EPG was no longer set to that channel.

The ► button allows you to look ahead in 15 minute steps to future programmes on the channels (press the ◄ button to return to the current time).

By pressing the PIP (green) button in the “Current” view you can display a schedule in 15 minute steps (see screenshot on the right). The selection of the desired is performed using the cursor buttons (✣) and confirmed using the OK button.

## “Preview” view (programme listings)

The “Preview” view can be called up at any time in EPG by pressing the OPT (yellow) button.

In the “Preview” view you will see all the programmes that will be shown on the channel previously selected in the “Current” view. Provided that EPG data have been supplied/transmitted by tvtv or by the channel provider, the receiver displays the programme lists for two weeks in advance.

You can use the cursor ( ) buttons to select the desired programme and, if available, you can use the i button to open further information on the desired programme.

You can use the ◄ ► buttons to scroll through the programmes in the order of the overall list of programmes (programmes can also be selected by entering digits with the number pad); you remain however in “Preview” mode.

You can also press the OPT (yellow) button to select the desired channel. The overall channel list is then displayed (see screenshot right). Use the cursor buttons ( ) to select the desired channel.

Confirm the selection with the OK button. The receiver automatically returns to the “Preview” view.

The + - button allows you to scroll backwards and forwards a day at a time.

Using the ● (red dot) button you can copy the selected programme to the recording settings (see “Recording” section).

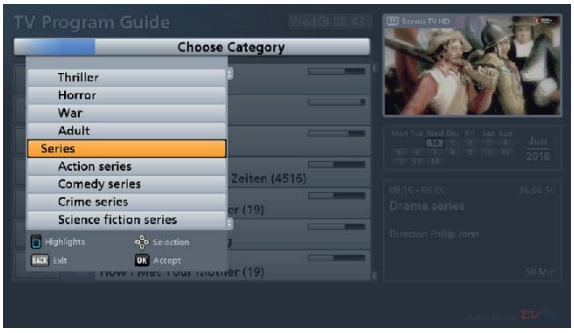
## Categories view

The “Preview” view can be called up at any time in EPG by pressing the TV/R (blue) button.

In the “Category” view you can see all programmes sorted by category and starting time. The following main categories are available for selection: Highlights, My hints (see “Extras menu”), Movie, Entertainment, Sport, News, Children, Music, Special interest, Movie rating and HD broadcast.
Some main categories are further subdivided into sub-groups, such as movies (action, comedy, crime ...).

Programmes can only be assigned to the above categories if the EPG data have been supplied by tvtv or the channel provider.

Select the required category using the ◄◄ ►► buttons.




You can also press the TV/R (blue) button to select the desired category. The list of categories is then displayed (see screenshot right). Select the required category using the cursor (✣) buttons.

Confirm the selection with the OK button. The receiver automatically returns to the “Categories” view.

You can then use the cursor (✣) buttons to select the desired programme in that category and, if available, you can use the i button to view further information on the desired programme.

The +/- button allows you to scroll backwards and forwards a day at a time.

Using the ● (red dot) button you can copy the selected programme to the recording settings (see “Recording” section).

## Extras menu

The “Extras” menu is opened in the EPG by pressing the MENU button. In this menu you are offered the following additional sorting/search facilities:

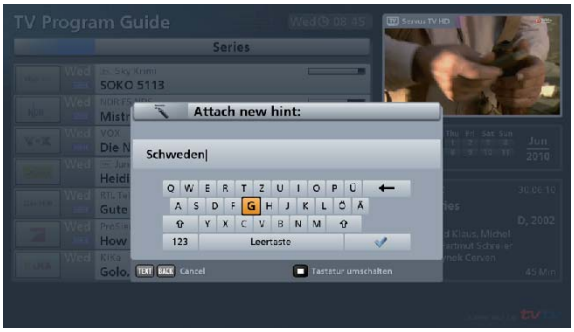
- My hints
- Actors list

The selection is made using the ▲▼ buttons and confirmed by pressing the OK button.

## My hints

You can create your own categories within this section. Press the TEXT button to activate the input field. Now you can enter the search expression/ category name for your new category. Alphanumeric characters are entered as described in “Operating instructions”, “Alphanumeric entries”.

To search the available programmes for one of your hints/categories, you need only select the desired hint/category in the categories view (called up using the TV/R (blue) button) or in the “My hints” window, and press the OK button to confirm.



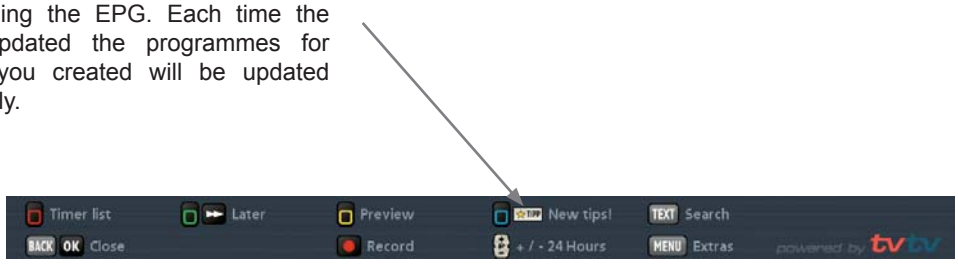

If programmes are available for your hints (categories), in future this will be indicated by an asterisk in a blue field when opening the EPG. Each time the EPG is updated the programmes for the picks you created will be updated automatically.

In this section you have the facility to select an actor that is shown in the actors list (using the cursor ( ) buttons) and the by pressing the OK button to search through all available data for programmes in which this person appears. If there are programmes available for which the name of this person appears in the information data, a list of the relevant programmes will be displayed by the receiver.

So as to find a specific actor more quickly, you can enter their name using the number pad and its alphanumeric assignments. Alphanumeric characters are entered as described in “Operating instructions”, “Alphanumeric entries”. The only data that will be shown is that for persons whose name includes the characters you entered (see screenshot on the right).

You can also select your favourite actors using the cursor ( ) buttons, providing their names are in the list; and then press the (red dot) button to confirm their inclusion in the “My hints” section.

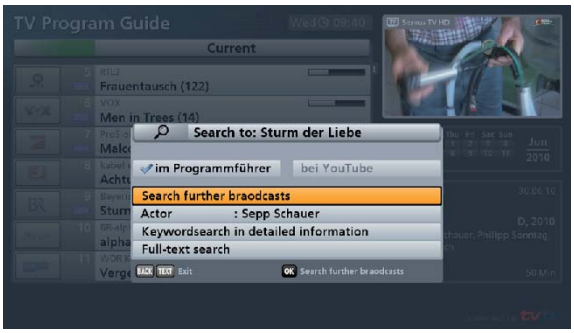
If programmes are available for your picks (categories), in future this will be indicated by an asterisk in a blue field when opening the EPG. Each time the EPG is updated the programmes for the picks you created will be updated automatically.



## Search function

The search function can be called up in EPG at any time by pressing the TEXT button. The following on-screen display appears (see screenshot on the right). You have the following search options:

- Search further broadcasts (in the example on the right “Sturm der Liebe”)




- Actor: Select the actor listed in the channel information (selection using the ◄ ► buttons)
- Keywordsearch in detailed information
- Full text search (called up by pressing the TEXT button again)

The selection is made using the ▲ ▼ buttons. To open the menu for “More Episodes” and “Keywordsearch in detailed information”, press the OK button.

**For the “YouTube” function, please follow the instructions for the “Mediacenter und Netzwerk(Web)-Interface“, that you can download at: www.kathrein.de → “Service” → “Software and Downloads” → “Receiver” → “UFS 912”.**

## More Episodes

The following on-screen display appears (see example on the right):

The selection is made using the ▲ ▼ buttons.

## Actor

Use the ◄ ► buttons to select an available actor. Press the OK button to see a list of those programmes (if any) in which this actor appears. This depends on the name of this actor being included in the channel information. The following on-screen display appears (example):

The selection is made using the ▲ ▼ buttons.

## Keyword search in detailed information

The following on-screen display appears (see example on the right):

Now use the cursor (✣) buttons to select the first letter of the word by which you wish to search the available EPG information. At the start of the selection process, press the OK button. You can now use the ◄ ► buttons to select the desired word (see example on the right).

TV Program Guide
Wed 09:43
Das Erste HD 15:05 - 15:55
Sturm der Liebe (1096)
Series, 2010
With Sepp Schauer, Joachim Lätsch, Isis Krüger
Director: Dieter Schlotterbeck
1095, Soap - Götz verlangt von Ben, dass er Astrids Anschuldigungen dementiert, und stürzt ihn damit in einen Gewissenskonflikt. Während Werner gegenüber Charlotte frohlockt, dass Götz schon bald das Mandat als Barbaras Verteidiger aufgeben muss, mobilisiert Götz Barbara, um auf Ben einzuwirken. In einem aufwühlenden Telefonat macht sie ihm klar, dass ihre Verteidigung in Gefahr ist, wenn er Götz belastet. Seiner Mutter zuliebe bestreitet Ben gegenüber dem Staatsanwalt schließlich Götz'
Soap
D, 2010
With Sepp Schauer, Joachim Lätsch, Isis Krüger
Director: Dieter Schlotterbeck
50 Min
Previous / Following event
Further information
Search
Back
Record

Pressing the OK button again starts the search for your keyword.

You will then see a listing of all programmes that contain your keyword in their detailed information.

TV Program Guide
Wed 09:44
Das Erste HD 15:05 - 15:55
Sturm der Liebe (1096)
Series, 2010
With Sepp Schauer, Joachim Lätsch, Isis Krüger
Director: Dieter Schlotterbeck
1095, Soap - Götz verlangt von Ben, dass er Astrids Anschuldigungen dementiert, und stürzt ihn damit in einen Gewissenskonflikt. Während Werner gegenüber Charlotte frohlockt, dass Götz schon bald das Mandat als Barbaras Verteidiger aufgeben muss, mobilisiert Götz Barbara, um auf Ben einzuwirken. In einem aufwühlenden Telefonat macht sie ihm klar, dass ihre Verteidigung in Gefahr ist, wenn er Götz belastet. Seiner Mutter zuliebe bestreitet Ben gegenüber dem Staatsanwalt schließlich Götz'
Soap
D, 2010
With Sepp Schauer, Joachim Lätsch, Isis Krüger
Director: Dieter Schlotterbeck
50 Min
Mark
Cancel mark
Search for: 'Verteidiger'

## Full-text search

After calling up the search function, press the TEXT button again to gain access to the full text search.

The following on-screen display appears (see example on the right): If necessary the last search expression used is offered. Pressing the ◄ button allows you to delete your entry or a search expression provided by the receiver.

Search expressions are entered using the number pad as described in “Operating Instructions”, “Alphanumeric entries”.

Pressing the OK button starts the search for your search expression.

You will then see a listing of all programmes that contain your search expression in their detailed information.

## Recording settings (programming the timer)

The ● (red dot) button allows you to set a programme for recording at any time. The programme to be recorded can be selected in any of the EPG views, provided the ● (red dot) button appears at the bottom of the on-screen display.

**Note:**

*You can set the automatic pre-recording and post-recording times for your recordings in the menu* "Settings", "User Defined Settings", "EPG Setup" *(see also the "User Defined Settings", "EPG setup" sections).*

**Programme in the EPG:**

Select the desired programme and press the ● (red dot) button. The following on-screen display appears (see example screenshot on the right):

Use the ◄ ► buttons to select the desired recording mode. The following recording mode options are available:

- Once: The recording will be performed once
- Daily: The recording will be performed daily at the time you specify
- Weekly: The recording will be performed once a week on the same day and at the same time
- User-defined: The recording will be performed on days specified by you at times specified by you
- Series recording: The selected programme will be set up by the EPG for recording every time it is broadcast (may even be on different channels). However this function requires an update of the EPG data (the update time for the EPG can be specified in the "Settings" menu, "User Defined Settings", "EPG Setup").
- Reminder function: See "Reminder function (switch over to programme)" section in this section.

Use the cursor (✥) buttons to select the further items and use the number pad to complete the settings.

When all settings have been made, press the OK button to save the recording settings. You can view the scheduled recordings in the timer list view of the EPG (see "Timer list" section).

**Programme not in EPG:**

Select any programme on the channel on which the desired programme is to be broadcast at a later date, and press the ● (red dot) button. The following on-screen display appears (example):
As there is no EPG data, you must enter the data (date, start, end) manually. Enter the data using the cursor (✣) buttons or the number pad. Press the OK button to save your settings.

## Setting the storage location for recordings

As described in the “Recording Archive” section, it is possible to create folders for your recordings and to store them in these folders. If folders have already been created for recordings, you have the option of specifying a folder as the destination when scheduling recordings in the EPG. It makes no difference which recording mode you choose after selecting the folder (e.g. for a series recording, all subsequent recordings of the programme will be stored in the folder you have selected). The procedure is as follows:

In the recording settings, press the ▲▼ buttons to select the “Target” field and then press the OK button. The following on-screen display appears (example):

Now use the ▲▼ buttons to select the desired folder or select “To Recording Archive Record” and then press the OK button.

The following on-screen display appears (example with a folder selected as the recording destination):

Now use the ▲▼ buttons to select “To “\xxxx” Record” and then press the OK button. The receiver then returns automatically to the recording settings (see example screen).

You can now select the recording mode you want to use.

## Recording “once”

Use the ◄► buttons to select the “once” recording mode (see screenshot on the right).

Use the ▲▼ buttons to switch to the “Date” field and use the ◄► buttons to select the desired recording day.

Use the ▲▼ buttons to switch to the selection field “Start” and use the ◄► buttons or the numeric pad buttons to select the desired recording start time.

Use the ▲▼ buttons to switch to the selection field “End” and use the ◄► buttons or the number pad button to select the desired recording end time.

When all settings have been made, press the OK button to save the recording settings.

## Recording “daily”

Use the ◄► buttons to select the “daily” recording mode (see screenshot on the right).

Use the ▲▼ buttons to switch to the selection field “Start” and use the ◄► buttons or the numeric pad buttons to select the desired recording start time. Use the ▲▼ buttons to switch to the selection field “End” and use the ◄► buttons or the number pad button to select the desired recording end time.

When all settings have been made, press the OK button to save the recording settings.

## Recording “weekly”

**Remember that the day of the week for the desired programme is loaded in the recording schedule and you can make no further manual corrections to it! Therefore, before pressing the OK button, select the programme on the day of the week that you will want to make the weekly recording in future.**

Use the ◄ ► buttons to select the “weekly” recording mode (see screenshot above). Use the ▲ ▼ buttons to switch to the selection field “Start” and use the ◄ ► buttons or the numeric pad buttons to select the desired recording start time. Use the ▲ ▼ buttons to switch to the selection field “End” and use the ◄ ► buttons or the number pad button to select the desired recording end time.

When all settings have been made, press the OK button to save the recording settings.

## Recording “user-defined”

Use the ◄ ► buttons to select the “user-defined” recording mode (see screenshot on the right).

Use the ▲ ▼ buttons to switch to the “Day” field and use the ◄ ► buttons to select the required day for the recording.

Press the OK button to fix the selection (the day will be shown in red).

If necessary the receiver will suggest some days to you; you can accept these suggestions or deactivate them using the cursor buttons and pressing the OK button.

Use the ▲▼ buttons to switch to the selection field “Start” and use the ◄► buttons or the number pad buttons to select the desired recording start time. Use the ▲▼ buttons to switch to the selection field “End” and use the ◄► buttons or the number pad button to select the desired recording end time.

When all settings have been made, press the OK button to save the recording settings.

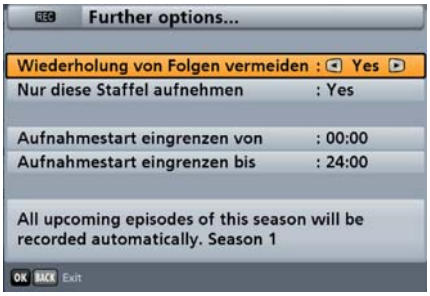
## “Series recording”

Use the ◄► buttons to select the “Series recording” recording mode (see screenshot on the right).

In series recording the start and finish of recording are taken automatically by the receiver from the EPG data.

Further options (optional):

In “Further options” the receiver also allows you to further limit the data for a series recording. Select the “Further options” line and confirm using the OK button. The following on-screen display appears:


Further options...
Wiederholung von Folgen vermeiden : Yes
Nur diese Staffel aufnehmen : Yes
Aufnahmestart eingrenzen von : 00:00
Aufnahmestart eingrenzen bis : 24:00
All upcoming episodes of this season will be recorded automatically. Season 1
Exit

Avoid repeat episodes:
An episode is only recorded once - any repeat of the same episode is not recorded.

Record only this scale:
Only episodes on the season displayed below are recorded. New episodes from a different season or old episodes from previous seasons are not recorded.

Limit recording start from/to:
In these two fields you also limit the time during the day to avoid the recording or repeats (e.g. from 17:00 to 19:00, to avoid a repeat at 23:00).

The settings “Avoid repeat episodes” and “Record only this scale” can only be made if the programmes are appropriately marked by tvtv or the broadcaster (season and episode number). If this is not the case, you can only make settings for the selection “Limit recording start from/to”. Press the OK button to make the “Further options” settings and then the OK button again to save the recording settings.

**Instructions for recording a series:**

*If the "Series recording" function is used to program recording of every edition or episode of a series, the EPG will locate the series in question on the updated schedules and automatically program the recording of them. A change in the time the series is broadcast is no problem for the EPG, as its programming is based on the series title.*
*This does, however, mean that the schedule change needs to have been notified prior to the last update of the EPG.*
*Only programmes are recorded that are on the channel from which you programmed the series recording. The series recording does not work across channels!*

## Reminder function (switch over to programme)

If you want to be reminded that a programme is about to start, you can activate the reminder function for the desired programme. The reminder function is set up in exactly the same way as programming a recording. The only difference is that the entry in the "Recording" line must be "Reminder".

Use the ▲▼ buttons to switch to the "Date" field and use the ◄► buttons to select the desired day.

Use the ▲▼ buttons to switch to the selection field "Start" and use the ◄► buttons or the number pad to select the desired time to switch over.

When all settings have been made, press the OK button to save the reminder settings.

The programme is marked in the programme guide and in the Timer list view (see screenshot on the right) with a green dot and the receiver will automatically switch over to the pre-selected channel at the start of the programme.

**The reminder function is only run if the receiver is in operation! The receiver is not started automatically by a reminder function.**

## Timer list view

The “Timer list” view can be called up at any time in EPG by pressing the FAV (red) button. The following on-screen display appears (example):

The Timer list view shows you all the recordings and reminders that are scheduled (marked green).

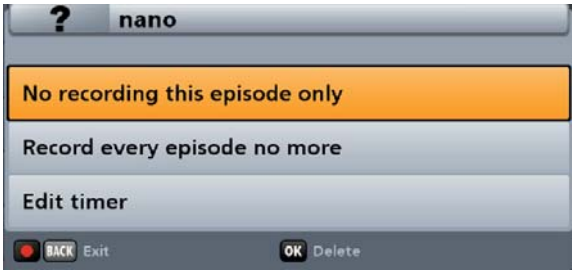
Using the ◄◄ ►► buttons you can sort the recordings by “Once-only” or “Continual” recordings (you can display this selection option also by pressing the FAV (red) button again).

The cursor (✥) buttons allow you to select a recording/reminder. Press the OK button to switch to the channel on which the recording/reminder is scheduled. The +/- buttons allow you to skip backwards and forwards through the future scheduled recordings, a day at a time.

The ● (red dot) button allows you to edit a recording/reminder that has been scheduled. You have the following selection options (select with the ▲▼ buttons and confirm with the OK button):

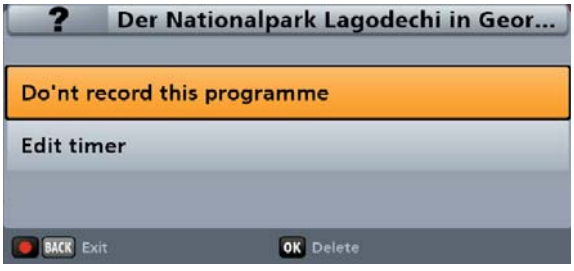
Editing options for series recordings:

- Only this one selected episode of a series recording will not be recorded
- No further selected episodes of a series recording will be recorded
- Edit the selected recording




Editing options for other types of recording:

- Scheduled recording is deleted
- Edit the scheduled recording

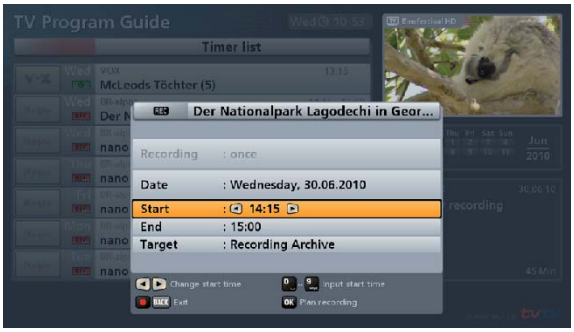


Editing options for the reminder function:

- Delete reminder
- Edit reminder

## Editing a recording

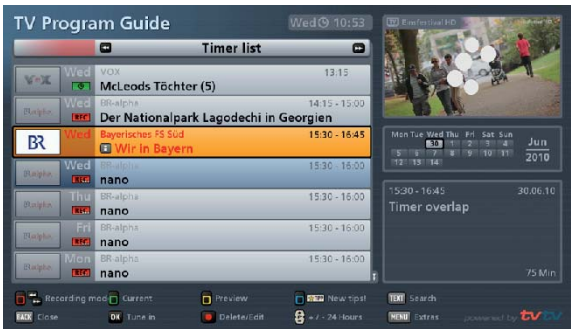
When editing a recording, you can change all parameters apart from the recording mode. Make the changes using the cursor ( ) buttons and the number pad. Press the OK button to confirm your changes, and return to the Timer list view.




## Timer overlap

If your scheduled recordings overlap, the Timer list view for the receiver shows the overlapping recordings with a blue background and the recording leading to the overlap is additionally shown in red script. You now have the option of deleting one of the recordings, or to reschedule it so there is no longer an overlap.

If the overlap arises when the recording is entered, the receiver notifies you directly of the overlap as soon as you give the “Save” command for the recording.



# Editing the Channel List

**All changes to the channel lists and favorites lists which you can make as described in the following section are not saved by the receiver unless, when you exit the menu by pressing the BACK button, you answer "Yes, save changes" to the question "Save changes?", using the OK button. If you give the answer "No, don't save changes", all the settings/changes you made will be discarded and not saved.**

## Calling up the "Edit TV Channellist" menu

You have two ways of accessing the edit menu for the channel lists:

**1. Directly via the channel list**

- From the TV picture, press the OK button to open the channel list
- Then press the ● (red dot) button

or

**2. Using the "Edit channel lists" item in the main menu**

- From the TV picture, press the MENU button to open the main menu
- Then select the "Edit channel lists" item, using the ▲▼ buttons, and confirm the call up from the menu using the OK button

**The procedure for editing the channel lists and channels is the same in both menus.**

The following on-screen display appears:

The receiver notifies you that the editing options in the "Edit channel list" menu can be called up using the ● button. If you do not want to see this notification again when next you call it up, press the ■ button. If you want to restore this notification when you next call up the "Edit TV-Channellist" menu, press the OK button.

# Editing the Channel List

***In the following section we have chosen to use the first option to explain the editing of the channel lists.***

## Selection of the channel list/favorites list to be edited

Now use the relevant coloured button to select the desired channel list category (refer to the “Basic Operation in TV or Radio Mode (Live Operation)”, “Channel selection from the channel list” sections for details). The following on-screen display appears (example):

**Currently selected channel list**

**Currently selected channel**

**Live picture from the selected channel**

**Call up the complete list**

(PIP green button)

**Channel list**

**Call up the favorites lists**

(FAV red button)

**Call up sorting by satellites, new channels and last search**

(◄◄ ►►)

**Signal strength and quality**

**Call up alphabetic sorting**

(OPT yellow button)

**Select**

(■■ button)

**Channel data:**
- Transmitting satellite
- Transponder frequency
- Polarisation
- Symbol rate
- Service ID

**Switch between the TV/radio lists**

(TV/R blue button)

**Call up editing options**

(● (red dot) button)

**Call up the search function**

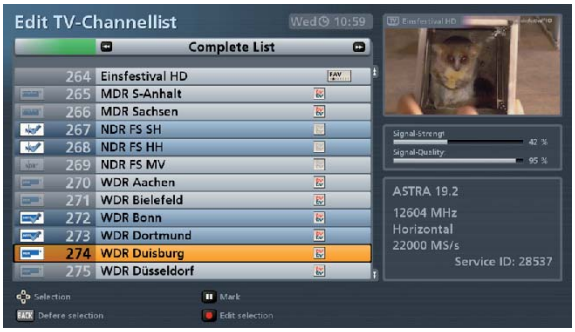
(TEXT button) **can be called up from any channel list**

# Editing the Channel List

## Selecting the channels to be edited

Select a channel in the selected channel list/favorites list using the cursor ( ) buttons (see example screenshot on the right).

To select several channels to be edited at the same time, if they are not listed directly following each other in the selected channel list, use the cursor ( ) buttons to select the first channel to be selected, and then press the button. The channel is shown with a coloured background. Now select the further channels to be edited at the same time, using the cursor ( ) buttons, and select each further channel to be edited, using the button (see example screenshot on the right). To select several channels that are listed directly following each other in the selected channel list, you can start block selection (see “Edit channels” “Start Blockselection”).




## Editing channels (channel lists)

After selection of the channel(s) to be edited, press the (red dot) button. The following on-screen display appears (see screenshot on the right):

“Start Blockselection” only appears if just one channel has been selected for editing.

# Editing the Channel List

## Move

Use the ▲▼ buttons to select “Move” and confirm your selection with the OK button.
The following on-screen display appears (see example screenshot on the right):

Now use the cursor (✥) buttons or the number pad to select the new channel memory position(s), then confirm the insertion with the OK button.

## Delete

**Channels that are deleted from a list other than a favorites list are deleted irrevocably and can only be restored by performing a new channel search.**

**Deletion of channels from a favorites list is the only circumstance in which the channels remain present in the complete list; the deletion only applies to the selected favorites list.**

Use the ▲▼ buttons to select “Delete” and confirm your selection with the OK button.
The selected channel(s) will be deleted.

## Skip

Use the ▲▼ buttons to select “Skip” and confirm your selection with the OK button.
The following on-screen display appears (see example screenshot on the right):
The channel that is to be skipped in future is shown in grey in the channel list. If you wish to select it in future, you can do this only by direct selection from the channel list. When manually zapping through the channels using the +/- buttons, the channel will be skipped and no longer displayed.

This function can be cancelled using the edit menu (select: “Unskip”).

# Editing the Channel List

## Lock

Use the ▲▼ buttons to select “Lock” and confirm your selection with the OK button.
To lock the channel you must now enter your four-digit PIN code (factory setting: 0000). The following on-screen display appears (see example screenshot on the right):
The locked channel is now displayed in the channel list with a padlock on the right hand side, and can in future be viewed only by entering the four-digit PIN code (factory setting: 0000).

This function can be cancelled using the edit menu (select: “Unlock”).

## To Favorite

Use the ▲▼ buttons to select “To Favorite: ***”. Now use the ◄► buttons to select the desired favorites list (see example screenshot on the right), to which you want to copy the channel(s). Confirm your selection with the OK button.

The selected channel(s) are copied into the favorites list you selected.

# Editing the Channel List

## Start Blockselection

Use the ▲▼ buttons to select “Start Blockselection” and confirm your selection with the OK button. You can now use the ▲▼ buttons to start block selection in the previously selected channel. This selects the channels in the sequence in which they appear in the previously selected channel list and applies a coloured background to them (see example screenshot on the right):

Then press the ● (red dot) button. You can now carry out all the editing functions channel by channel individually for all the selected channels. Select the desired action (“Move”, “Delete”, “Skip”, “Lock” or “To Favorite”), using the ▲▼ buttons, and confirm your selection with the OK button. You can find an explanation of the individual edit options under “Editing channels (channel lists)” in this section.

## Editing channels (favorites lists)

After selection of the channel(s) to be edited, press the ● (red dot) button. The following on-screen display appears (see screenshot on the right):

“Start Blockselection” only appears if just one channel has been selected for editing.

## Move

See “Editing channels (channel lists)”, “Move”.

## Remove from favoritelist

Use the ▲▼ buttons to select “Remove from favoritelist” and confirm your selection with the OK button.

The selected channel(s) are deleted from the previously selected favorites list, but not from the complete list.

# Editing the Channel List

## Lock

See “Editing channels (channel lists)”, “Lock”.

## Start block selection

See “Editing channels (channel lists)”, “Start block selection”.

## Rename favoritelist

Use the ▲▼ buttons to select “Rename favoritelist” and confirm your selection with the OK button.

You can now rename the favorites list you selected. The following on-screen display appears (see example screenshot on the right).

Alphanumeric characters are entered as described in “Operating instructions”, “Alphanumeric entries”.

Confirm the name you have entered using the OK button.

# Recording Archive (Playing Back/Editing Recordings)

**Function can be used only when the archive hard disk is connected and has been set up *).**

*) Tested only with hard disks from the Kathrein product range (see also: www.kathrein.de → Service → FAQs)

## Calling up the recording archive

The recording archive is called up by pressing the ARCHIVE button or the ► button. Each time the EPG is opened, you will automatically be shown the view you had selected the last time you exited the archive. The following on-screen display appears (example):

**Selected view/sorting the recording archive**

**In this "Preview window", you are always shown the current programme on the last channel to be selected, with the channel name.**
**After the start of playback of a recording, instead of the channel name you are shown the title of the recording being played back.**

**A recording marked with "REC" is a recording that is in progress**

**Information on the remaining storage capacity on the hard disk connected**

**List of the available recordings, using the sort order selected above and the folders created**

**Date and time of the selected recording with category, duration and picture format**

**At this point you will be shown any age restrictions for the highlighted programme, if this is supplied by the channel provider**

Recordings which have not yet been viewed (in part or in full) are flagged as "New" (see previous page). As soon as part of the recording has been viewed, the last screen of the recording before the playback stop is displayed in front of the name of the recording.

# Recording Archive (Playing Back/Editing Recordings)

## Selection options (remote control buttons in the recording archive)

- FAV (red) button
  1x call up the chapter view or the automatic structure of chapters (if not yet available), 2x overview of existing recordings

- PIP (green) button
  1x call up ordering the recordings (ordered by date, ordered by title and ordered by duration), 2x overview of sorting options

- OPT (yellow) button
  1x display of the recordings by channel, 2x overview of channels for which recordings are available

- TV/R (blue) button
  1x indication of the recordings by category (e.g. move, news, sport, series ...), 2x overview of the categories for which recordings are available

- ◄◄ ►► buttons
  Changes to the sorting in each selected category

- OK button
  The first press starts playback of the last item in the “Preview window”. If the button is pressed again, the playback is continued in full-screen mode

- ► button
  Starts playback of the selected recording from beginning in full-screen mode

- ● (red dot) button
  Call up the edit menu

- TEXT button
  Search for a particular recording or programme content (e.g. key word search from the detail information) or other recordings of this programme (enter the search expression using the number pad on the remote control, see also the section “Operating Instructions”, “Alphanumeric entries”)

- i button
  If available, shows further information on the selected recording

- ▮▮ button
  Select recordings

# Recording Archive (Playing Back/Editing Recordings)

Navigation within each view of the recording archive is always performed using the cursor buttons ( ).

The ▲ ▼ buttons allow you to select individual recordings, and the ◄ ► buttons allow you to scroll from page to page in the currently selected list.

Pressing the ARCHIVE or the BACK button exits the recording archive and returns to the TV picture.

## Views (sorting the recordings) in the recording archive

When displaying the recordings you have the following sorting/display options:

PIP (green) button — Ordered by date (you can use the ◄◄ ►► buttons to choose between the sorting criteria of date, title or duration (recording length))

OPT (yellow) button — Ordered by channels (you can choose between the available channels using the ◄◄ ►► buttons). Only those channels for which a recording is available are shown

TV/R (blue) button  Ordered by categories/genres (you can choose between the available categories using the ◄◄ ►► buttons). Only those categories for which a recording is available are shown

FAV (red) button  Chapter view (see “Chapter view” sub-section in this section)

## Folders in the recording archive

The UFS 912 offers you the facility to create folders in the recording archive. You can give these folders the names of your choice and add recordings to them.

### Creating folders

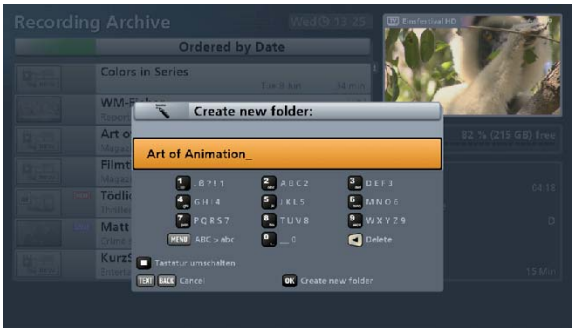
Use the ▲▼ buttons to select any recording and then press the ● (red dot) button. The following on-screen display appears (see screenshot on the right):

Use the ▲▼ buttons to select the “Create new folder” option and confirm by pressing the OK button.

# Recording Archive (Playing Back/Editing Recordings)

The following on-screen display appears (see example screenshot on the right): The receiver always suggests the recording that was selected when you switched to the edit menu automatically as the folder name. You can press the

◄ button to delete the name suggested by the receiver. You can then give the folder to be created a new name, as described under “Operating instructions”, “Alphanumeric entries”.




**Note:** *To create a subfolder in a folder you have already created, you must first open the main folder using the* OK *button. Then follow the same process described under “Creating folders”.*

## Editing folders (delete/rename)

Use the ▲▼ buttons to select the folder to be edited and then press the

● (red dot) button. The following on-screen display appears (see example screenshot on the right):

Use the ▲▼ buttons to select the line containing the editing option you want to use.

**Delete:**
The folder must be empty to use this function. If the folder to be deleted still contains recordings, you must first delete these as described under “Editing recordings”, “Delete”. Press the OK button to confirm deletion of the selected folder.

**Rename:**

Confirm selection of “Rename” with the OK button. You can then give the folder a new name, as described under “Operating instructions”, “Alphanumeric entries”.

**Create new folder:**
See “Creating folders” section.

# Recording Archive (Playing Back/Editing Recordings)

## Playback of a recording

Use the ▲ ▼ buttons to select the desired recording. Confirm selection of the desired recording by pressing the OK button. Pressing the OK button again exits the recording archive and allows the desired recording to be viewed in full-screen mode. Playback starts at the last playback position.

If playback is started by pressing the ► button, playback of the recording starts from the beginning and in full-screen mode.

## Playback functions

During playback of a recording you have the following options:

| | | | |
|---|---|---|---|
| ▮▮ | Pause button | This stops playback; playback can be resumed either by pressing the pause button again or by pressing the play button | |
| i | Info button | 1 x | This displays the playback info with elapsed and remaining times and the channel info plus title, genre etc. for the recorded programme (see screenshot on the next page). To hide the playback info again, press the i button twice |
| | | 2 x | This displays the info text recorded with the programme. To hide the info text again, press the i button again |
| ►► | Fast forward button | Available fast forward speeds: 2, 4, 8, 16, and 32 times. Each time the fast forward button is pressed, the fast forward speed increases another step. Pressing the rewind button reduces the fast forward speed step by step. Press the “Play” button to return to the normal playback speed | |
| ◄◄ | Rewind button | Available rewind speeds: 2, 4, 8, 16, and 32 times. Each time the rewind button is pressed, the rewind speed increases another step. Pressing the fast forward button reduces the rewind speed step by step. Press the “Play” button to return to the normal playback speed | |
| ► | Play button | Pressing the “Play” button reverts from fast forward/rewind mode or from pause mode to normal playback and/or shows/hides the progress bar | |
| ■ | Stop button | This stops playback or fast forward/rewind and the receiver automatically skips back to the recording archive | |
| ▲ | Cursor button (up arrow) | Each time the cursor button (up arrow) is pressed, the playback point in the recording skips one chapter forwards | |
| ▼ | Cursor button (down arrow) | Each time the cursor button (down arrow) is pressed, the playback point in the recording skips one chapter backwards | |
| ► | Cursor button (right arrow) | Each time the cursor button (right arrow) is pressed, the playback point in the recording skips 30 seconds forwards | |

# Recording Archive (Playing Back/Editing Recordings)

| | | |
|---|---|---|
| ◄ | Cursor button (left arrow) | Each time the cursor button (left arrow) is pressed, the playback point in the recording skips 30 seconds backwards |
| FAV | Fav (red) button | Call up chapter view/close chapter view |
| OPT | Opt (yellow) button | Call up option selection (sound selection, subtitles, HDMI/YUV Resolution ...) |
| OK | OK button | Call up the recording archive during playback. The playback continues to run in the preview window |
| ● | (red dot) button | Creating chapters |

**You will see this on-screen display after starting playback of the recording in full-screen mode or by pressing the i button once**

**You will see this on-screen display during all types of fast forward/rewind or by pressing the ■ button or ► button**

## Creating chapters

To create a chapter during playback of a recording, press the ● (red dot) button. The receiver will automatically assign a chapter mark to the current position.
To view the chapters you have created in a recording, press the FAV (red) button (see “Chapter view” section) during the playback or whilst in the recording archive.

# Recording Archive (Playing Back/Editing Recordings)

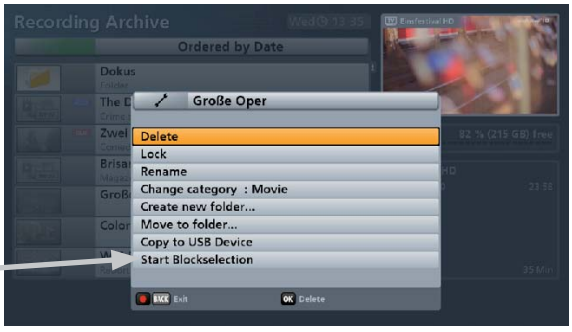
## Selection of the recording(s) to be edited

To select a recording, select the desired recording in the selected sort list, using the cursor ( ) buttons (see example screenshot on the right). If the relevant recording is stored in one of the folders you have created, first select the folder containing the recording using the cursor ( ) buttons and then confirm with the OK button. Now select the recording to be edited using the cursor ( ) buttons.

To select several recordings to be edited at the same time, if they are not listed directly following each other in the selected sort list, use the cursor ( ) buttons to select the first recording to be selected, and then press the button. The recording is given a coloured background and marked with a tick. Now select the further recordings to be edited at the same time, using the cursor ( ) buttons, and select each further recording using the button (see example screenshot on the right). To select several recordings that are listed directly following each other in the recording archive, you can start block selection (see “Editing recordings”, “Start Blockselection”).

## Editing recordings

After selection of the recording(s) to be edited, press the (red dot) button. The following on-screen display appears (see screenshots on the right):




“Start Blockselection” only appears if just one recording has been selected for editing.

# Recording Archive (Playing Back/Editing Recordings)

## Delete

**Deleted recordings are irrevocably deleted and can only be restored by re-recording the programme!**

Use the ▲ ▼ buttons to select “Delete” and confirm your selection with the OK button.
The selected recording(s) will be deleted.

## Lock

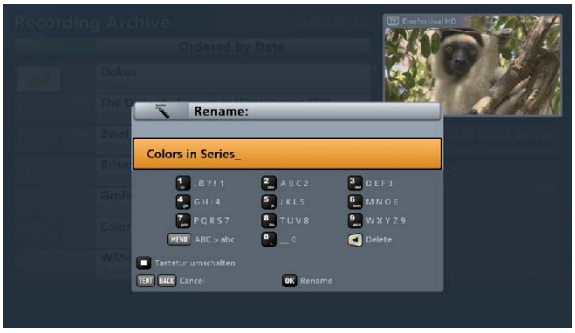
Use the ▲ ▼ buttons to select “Lock” and confirm your selection with the OK button. In order to activate the lock you must enter your four-digit PIN code (factory setting: 0000).
The following on-screen display appears (see example screenshot on the right):
The locked recording is displayed in the recording archive with a padlock on the left hand side, and in future can only be viewed by entering the four-digit PIN code (factory setting: 0000).

This function can be cancelled using the edit menu (select: “Unlock”).

## Rename

Use the ▲ ▼ buttons to select “Rename” and confirm your selection with the OK button.

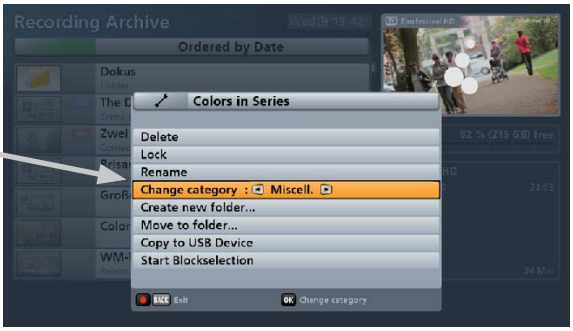
You can now rename your selected recording. The following on-screen display appears (see example screenshot on the right).
Alphanumeric characters are entered as described in “Operating instructions”, “Alphanumeric entries”.




Confirm the name you have entered for the favorites list using the OK button.

## Change category

Use the ▲▼ buttons to select “Change category”. Now use the ◄► buttons to select the desired category (see example screenshot on the right), to which the recording(s) should be assigned. Confirm your selection with the OK button.




If no appropriate category is available, you can create the desired category yourself. Use the ◄► buttons to select “Edit category...” and confirm by pressing OK button.

The following on-screen display appears:

Press the TEXT button to create a new category.

The following on-screen display appears:

Alphanumeric characters are entered as described in “Operating instructions”, “Alphanumeric entries”.

Confirm the name you have entered for the new category using the OK button.

You can now assign the new category you have created in the same way as all existing categories, as described under “Change category”.

# Recording Archive (Playing Back/Editing Recordings)

## Create new folder

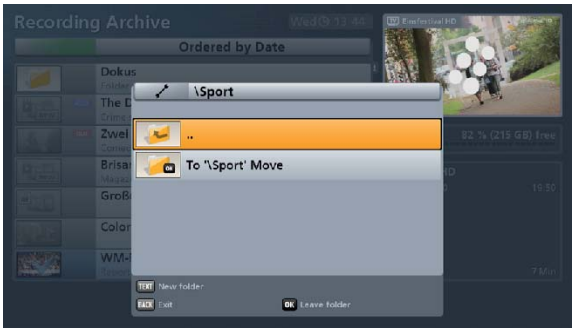
See “Folders in the recording archive”, “Creating folders”.

## Move to folder

You can use this function to move the recording selected before calling up the edit menu to a folder you have created.

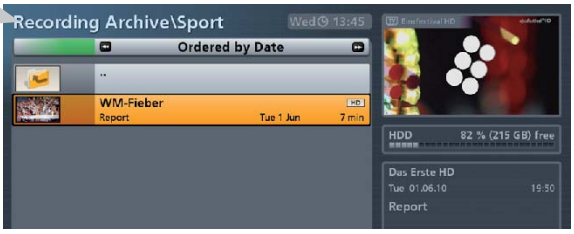
Use the ▲▼ buttons to select “Move to folder...”. Then press the OK button. The currently available folders are displayed. Use the ▲▼ buttons to select the desired folder and confirm by pressing the OK button. The following on-screen display then appears (example):

Use the ▲▼ buttons to select “To “xxxx” Move” and confirm by pressing the OK button. The receiver moves the recording to the selected folder. The receiver then automatically opens this folder and you will see a display of the previously selected recording in the folder.




Press the BACK button to return to the main overview of the recording archive.

If you are not sure which folder you are currently in, this is indicated at the top of the display. See example screenshot on the right:

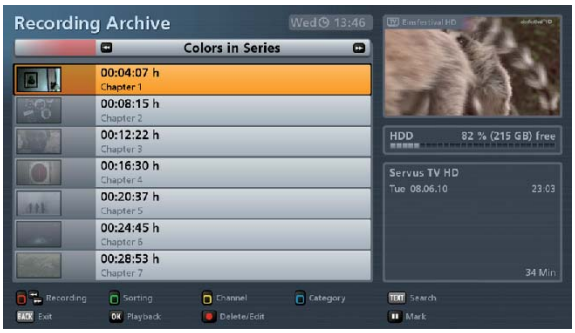


## Chapter view

The chapter view for a recording is called up using the FAV (red) button in the recording archive. The following on-screen display appears (see example screenshot on the right):

**Note:**

*When the chapter view is called up, the receiver automatically creates seven chapters for the recording you select, if this has not already been done. This function is not performed if you have already created chapters manually.*

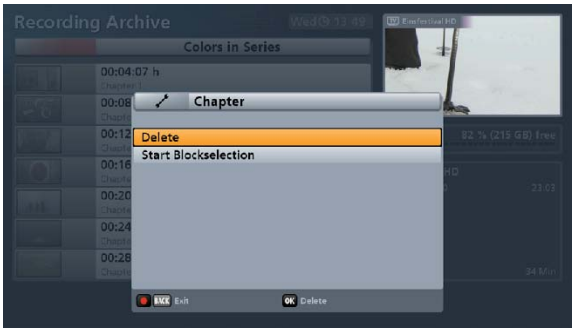


Use the ▲▼ buttons to select the desired chapter. The start of playback from the selected chapter is performed using the OK button. During the playback you can press the FAV (red) button to display the chapter view again, and if desired use the ▲▼ buttons to select another chapter. This is called up by pressing the OK button (see example screenshot above).

## Deleting chapters

**Deleting a chapter:**

Use the ▲▼ buttons in the chapter overview to select the chapter to be deleted, and press the ● (red dot) button. The following on-screen display appears (see screenshot on the right):




Use the ▲▼ buttons to select “Delete” and confirm your selection with the OK button. The selected chapter is deleted. The section of the recording assigned to that chapter is assigned to the preceding chapter that has not been deleted.

**Deleting chapters does not alter the recording in any way!**

**Deleting several chapters:**

Selecting the chapters to be deleted (not in the sequence of the “Chapters” overview):

To select several chapters to be deleted at the same time, if they are not listed directly following each other in the chapter overview, use the cursor ( ) buttons to select the first chapter to be selected, and then press the button. The chapter is shown with a coloured background. Now select the other chapters to be deleted at the same time, using the cursor ( ) buttons, and select each further chapter to be deleted, using the button.

Selecting the chapters to be deleted (in the sequence in the chapter overview):

To select several chapters that are listed directly following each other in the “Chapters” overview, you can start block selection. First use the buttons in the chapter overview to select the chapter at which you want to start the block selection. Then press the (red dot) button and use the buttons to select “Start Blockselection”. Confirm the selection with the button. Now you can use the buttons to select several chapters in their sequence within the chapter overview.

Deleting the selected chapters:

After selecting the chapters to be deleted, press the (red dot) button. Use the buttons to select “Delete” and confirm your action with the button. The selected chapters will be deleted. The sections of the recording assigned to these chapters are assigned to the preceding chapters that were not deleted.

**Deleting chapters, even if all chapters in a recording are deleted, does not alter the recording in any way!**

## Calling up the main menu and introduction

The main menu is called up by pressing the MENU button. The following on-screen display appears:

The programme showing on the currently selected channel always appears in the top right-hand corner of the main menu.

The selected menus, sub-menus and items, and also the parameters to be set, are each marked in colour.

**Always pay attention to the bar at the bottom of the on-screen display. This provides information about the next action/edit step.**

The sub-menus are selected using the ▲▼ buttons and called up using the OK button. Use the ▲▼ buttons to select the submenu items. The settings of the various parameters in the individual items are made using the ◄► buttons or the number pad.

The main menu and sub-menus can be exited step-by-step using the BACK button. Press the MENU button to return directly from one of the menus to the TV picture.

# Main menu

(call up by pressing the MENU button)

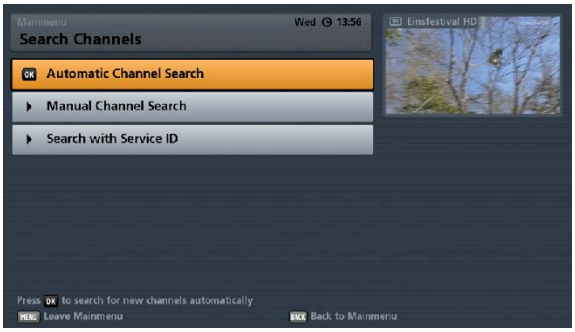
| Edit Channel List | Search Channels | Service Menu | Settings | Interfaces | Applications | Language Selection |
|---|---|---|---|---|---|---|
| | Automatic Channel Search | Automatic Software Update | First Installation (see “Connection and Set-Up”, “First Installation” section) | Common Interface | Start FTP at Booting | |
| | Manual Channel Search | Software Update by Satellite | Basic Settings | HDD Management | 4GB Limit | |
| | Search with Service ID | Software Update by USB | User Defined Settings | Ethernet Settings | Start UPnP at Booting | |
| | | Factory Reset | Antenna & Satellite | | | |

# Main Menu - Channel Search

After calling up the menu you will see the following on-screen display:

You have three different search options:

- Automatic Channel Search
- Manual Channel Search
- Expert Channel Search

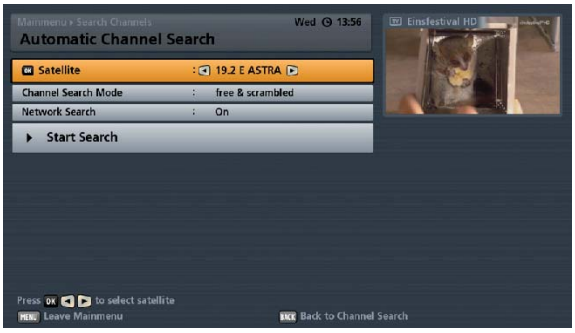



Use the ▲▼ buttons to select the desired search type and confirm your selection using the OK button.

## Automatic Channel Search

After calling up the menu you will see the following on-screen display:

The ▲▼ buttons allow you to select different sets of parameters for the search.




**Satellite**

You can now use the ◄► buttons to select between the individual satellites you have set up, or choose the setting “All”. If “All” is selected, all the individual satellites you have set up will be searched for new channels. Make sure your reception system is aligned to this/these selected satellite(s).

**Channel Search Mode**

Use the ◄► buttons to select the type of channels that are to be searched for. You have three options:

- “free & scrambled” All channels are searched for
- “free channels only” Only free-to-air channels are searched for
- “scrambled only” Only encrypted channels are searched for

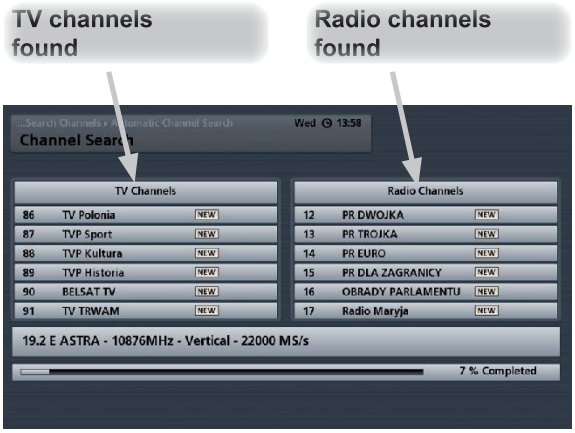
**To view encrypted channels you need an appropriate CA (Conditional Access) module and a valid smart card together with a valid subscription to the relevant Pay TV provider.**

**Network Search**

Use the ◄ ► buttons (On/Off) to select whether a network search should be performed. If you set the “Network Search” to “Off”, only the factory default transponders for the satellite(s) you previously selected will be searched for new as yet unsaved channels. If you set the “Network Search” to “On”, the transponder network enables additional transponders that have not yet been stored to be located. They are then stored and searched for new channels in the same way as the existing transponders. Once you have performed all the settings, use the ▲ ▼ buttons to switch to the “Start Search” selection field and confirm the start of the searching using the OK button. The following on-screen displays appear (example):

During the search you will see the following on-screen display (example):

The new channels found are identified by the suffix “New” (see example screenshot on the right).

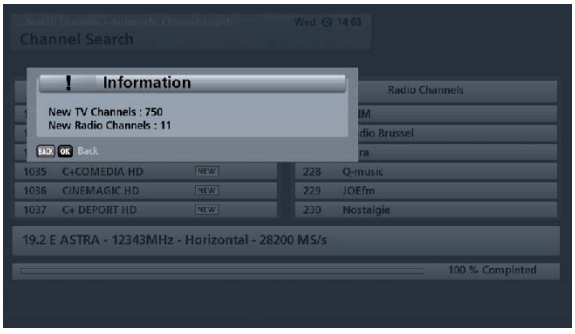



**Note:**

*You can cancel the search at any time by pressing the BACK button.*

After completion of the search, you will see the following on-screen display (example):

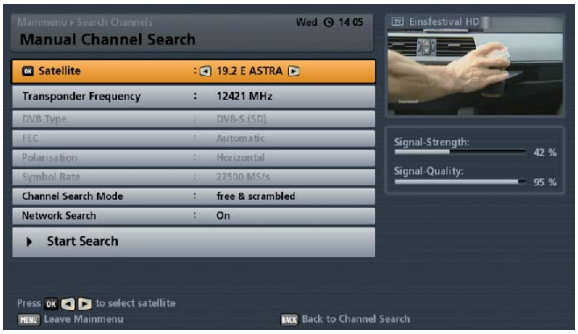
Press the OK button. The newly found channels are added at the end of the existing complete list.




Press the MENU button to return to the TV picture. The new channels can now be selected in the channel list.

## Manual Search

After calling up the menu you will see the following on-screen display:




The ▲ ▼ buttons allow you to select different sets of parameters for the search.

In this menu you can selectively search a transponder for the new channels.

**Satellite**

Use the ◀ ▶ buttons to select the satellite on which the transponder you want to search is located. By pressing the OK button at this point you can view a list of the installed satellites. Use the ✥ buttons to select the satellite you want and confirm your selection with the OK button. Make sure your reception system is aligned to this/these selected satellite(s). If you want to search several transponders on a satellite, you should start an automatic search of the transmitting satellite.

**Transponder Frequency**

Use the ◀ ▶ buttons (transponder frequency already saved) or the number pad (transponder frequency not yet saved) to select the transponder frequency on which the channel being sought is transmitted. By pressing the OK button at this point you can view a list of the saved transponders for the selected satellite. Use the ✥ buttons to select the transponder you want and confirm your selection with the OK button. At the bottom right of the on-screen screen display, the receiver shows the current signal strength and signal quality of the selected transponder.

**The “DVB Type”, “FEC”, “Polarisation” and “Symbol Rate” options only need to be specified if the transponder has yet to be saved.**

**DVB Type**

Press the ◀ ▶ buttons to select whether you want to search for standard channels (DVB-S (SD)) or for HDTV channels (DVB-S2 (HDTV)).

**Error rate**

Press the ◄ ► buttons to select the applicable error rate (Viterbi rate). When searching for DVB S(SD) transponders you need not state the error rate. Instead a fixed display of “Automatic” appears. When searching for DVB S2(HD) transponders you must state the correct error rate. Either QPSK 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 or 8PSK 2/3, 3/4, 3/5, 5/6, 8/9 or 9/10.

**Polarisation**

Press the ◄ ► buttons to select the correct polarisation (horizontal or vertical).

**Symbol Rate**

Use the number pad to enter the related symbol rate.

**Channel Search Mode**

Use the ◄ ► buttons to select the type of channels that are to be searched for. You have three options:

- “free & scrambled” All channels are searched for
- “free channels only” Only free-to-air channels are searched for
- “scrambled only” Only encrypted channels are searched for

**To view encrypted channels you need an appropriate CA (Conditional Access) module and a valid smart card together with a valid subscription to the relevant Pay TV provider.**

**Network Search**

Use the ◄ ► buttons (On/Off) to select whether a network search should be performed. If you set the “Network Search” to “Off”, only the factory default transponders for the satellite(s) you previously selected will be searched for new as yet unsaved channels. If you set the “Network Search” to “On”, the transponder network enables additional transponders that have not yet been stored to be located. They are then stored and searched for new channels in the same way as the existing transponders. Once you have performed all the settings, use the ▲ ▼ buttons to switch to the “Start Search” selection field and confirm the start of the searching using the OK button.

The following on-screen displays during and in connection with the search are identical to those for the automatic search.

## Search with Service ID

After calling up the menu you will see the following on-screen display:

The ▲▼ buttons allow you to select different sets of parameters for the search.

**Satellite**

Use the ◄► buttons to select the satellite that is transmitting the channels to be searched. By pressing the OK button at this point you can view a list of the installed satellites. Use the ✥ buttons to select the satellite you want and confirm your selection with the OK button. Make sure your reception system is aligned to this/these selected satellite(s).

**Transponder Frequency**

Use the ◄► buttons (transponder frequency already saved) or the number pad (transponder frequency not yet saved) to select the transponder frequency on which the channel being sought is transmitted. By pressing the OK button at this point you can view a list of the saved transponders for the selected satellite. Use the ✥ buttons to select the transponder you want and confirm your selection with the OK button. At the bottom right of the on-screen screen display, the receiver shows the current signal strength and signal quality of the selected transponder.

**The “DVB Type”, “FEC”, “Polarisation” and “Symbol Rate” options only need to be specified if the transponder has yet to be saved.**

**DVB Type**

Press the ◄► buttons to select whether you want to search for standard channels (DVB-S (SD)) or for HDTV channels (DVB-S2 (HDTV)).

**Error rate**

Press the ◄► buttons to select the applicable error rate (Viterbi rate). When searching for DVB S(SD) transponders you need not state the error rate. Instead a fixed display of “Automatic” appears. When searching for DVB S2(HD) transponders you must state the correct error rate. Either QPSK 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 or 8PSK 2/3, 3/4, 3/5, 5/6, 8/9 or 9/10.

**Polarisation**

Press the ◄ ► buttons to select the correct polarisation (horizontal or vertical).

**Symbol Rate**

Use the ◄ ► button or the number pad to enter the applicable symbol rate.

**Service ID**

Use the number pad to enter the service ID of the channel to be searched for.

Once you have performed all the settings, use the ▲ ▼ buttons to switch to the “Start Search” selection field and confirm the start of the searching using the OK button.

**Note:**

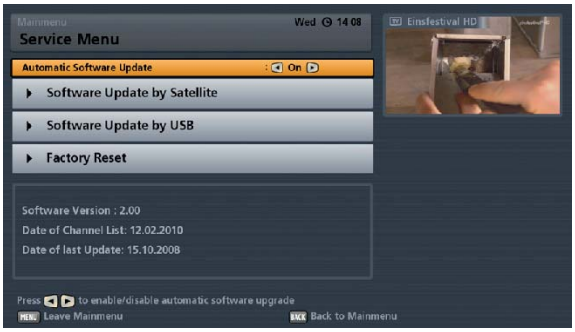
*You can cancel the search at any time by pressing the BACK button.*

The following on-screen displays during and in connection with the search are identical to those for the automatic search.

# Main Menu - Service Menu

After calling up the menu you will see the following on-screen display:

You can choose between various different menus:




- Automatic Software Update
- Software Update by Satellite
- Software Update by USB
- Factory Reset

In addition, the following information is displayed in the service menu under the “Factory Reset” option:

- Operating software version currently in use on the receiver
- Date of the last update of the channel list
- Date of the last update of the receiver operating software

Use the ▲ ▼ buttons to select the desired menu and confirm your selection using the OK button.

## Automatic Software Update

Select the required setting (On/Off) using the ◄ ► buttons.

**Setting “Off”:**

The receiver does not automatically search for new software available every day when updating the tvtv data and does not compare the channel list you have stored on the receiver with the delta channel list transmitted. However, you can perform a software update manually at any time, as described under “Software Update”.

**Setting “On”:**

The receiver automatically searches for new software available every day when updating the tvtv data and compares the channel list you have stored on the receiver with the delta channel list transmitted. Your channel list **is not overwritten, only updated**. For example, if the name or frequency of a channel changes, the old parameters for the affected channel are replaced by the new ones in your channel list on the receiver. The channel is not moved in the channel list. New channels that have not yet been saved in your channel list are added to the end of the list. Channels that are no longer broadcast are deleted.

**Note:** *The receiver does not make the changes automatically without your approval, they are buffered until the next time the receiver is started.*

If new software or changes to the channel list are found, you will see the following on-screen display the next time you start the UFS 912 (the original on-screen displays may vary from these example screenshots):

Press the OK button to perform the software update.

***! New software available***

Information UFS 912 date xx.xx.xxxx

Dear customer,
New software V x.xx is available.

xxx

You will find more information at
www.kathrein.de

BACK Cancel OK Update Software

After the software update, you will see the following on-screen display (only if there are any changes to the delta channel list):

Press the OK button to perform the channel list update or the BACK button if you do not want to update your channel list.
**The channel list is not overwritten!**

***! New Channel List available***

There is a channel list update available.
The sorting of your channel list will be retained.

BACK Cancel OK Update Channel List

The receiver saves the new data and then restarts.

**Do not switch off the receiver during this process; wait until the automatic restart has been completed. Otherwise, the software on the unit could be corrupted!**

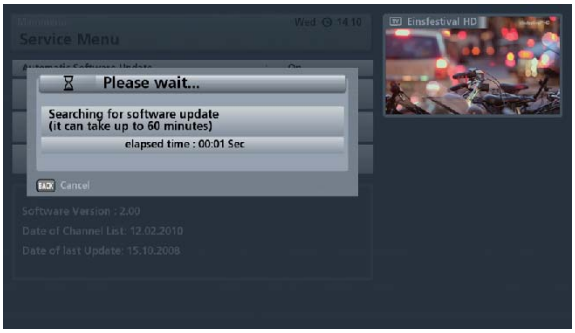
***! Note***

Data will be stored! Don't switch off the receiver!
Receiver will start automatically!

After the restart, the update is complete.

## Software update by satellite

After calling up the menu you will first see the following on-screen display:




**All available modules/ components for your receiver will be loaded and then displayed.**

The loading process can take up to 60 minutes

The following on-screen display then appears:

Mainmenu › Service Menu
Thu 10:05
Software Update
Installed software is up to date : 2.00
Channellist is available
Channel list of Deutschland will be installed
OK Show Infotext
Update Software : Yes
Update channellist : Yes
Start Update
Press OK to show new version's information
MENU Leave Mainmenu
BACK Back to Service Menu

Use the ▲▼ buttons to select the parameters to be updated during the update procedure.

Show Infotext:

Press the OK button to display the info text for the available downloads. These indicate the main features of the new operating software, based on which you can decide whether you want to install the new software on your receiver.

Update Software:

Select “Yes” here if you want to install new software; select “No” if you are satisfied with your old software version and the changes in the new software are not relevant to you.

Update channellist:

Select “Yes” here if you want to install the new channel list, or “No” if you want to retain your old channel list. Prior to this action you can however also save your old channel list using the “Software Update by USB”, “Save channel list on a USB device” menu, so that if you do not like the new channel list you can revert back to the old one.

If a new channel list is loaded, this will be automatically regenerated after each factory reset (Factory Reset) (see “Service Menu”, “Factory Reset”, “Reset Channel List”).

Once you have made all the settings for updating your receiver, switch to the “Start Update” field and press the OK button. The receiver will now automatically start updating the components you selected.

**Once the update is complete, the receiver is re-initialised and starts operation again. Never turn off the receiver during the update process, as otherwise you could lose the entire software. You would then need to re-install it in a workshop or using a PC and network cable. You can use the Service menu to check whether the new software has been installed.**

**Follow all on-screen instructions!**

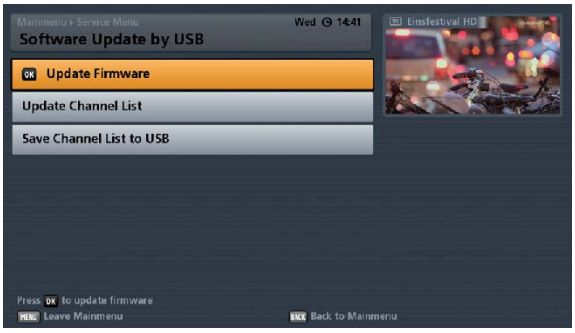
**Check the time setting following a software update!**

**You can also download the updates from the Internet. The address is: http://www.kathrein.de**
**You will find the software at “Service” → “Software and Downloads” → “Receiver” → “UFS 912”**

**These updates can be performed via the receiver's USB ports (see “Service Menu”, “Software Update by USB” or “Operation from the front panel”)**

## Software update by USB

After calling up the menu you will see the following on-screen display:
The individual functions are selected using the ▲▼ buttons and started using the OK button.




**A pre-requirement for the updating via a USB device is an empty USB device (such as a USB stick), formatted as FAT32, containing only the operating software or channel list to be loaded. It is essential that the operating software to be loaded is stored on the USB device under the following directory structure:**
**Main folder: kathrein**
**Subfolder: └ ufs912**

**You can also download the updates from the Internet. The address is: http://www.kathrein.de**
**You will find the software at “Service” → “Software and Downloads” → “Receiver” → “UFS 912”**

## Update Firmware

First connect your USB device (with the new operating software) to the receiver, using a free USB port on the receiver. Then select the “Update Firmware” field and confirm the start of the update by pressing the OK button. The receiver will ask you to confirm that you are sure you want to update the operating software Press the OK button to confirm the displayed message. The receiver now automatically performs the update of the operating software.

**Once the update is complete, the receiver is re-initialised and starts operation again. Never turn off the receiver during the update process, as otherwise you could lose the entire software. You would then need to re-install it in a workshop or using a PC. You can use the Service menu to check whether the new software has been installed.**

**Follow all on-screen instructions!**

**Check the time setting following a software update!**

## Update Channel List

The method for updating the channel list via USB is exactly the same as that used for updating the software (channel list name: channel.xml).

## Save channel list to USB

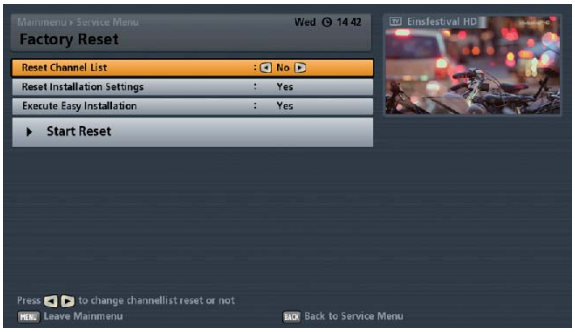
The receiver here offers you the option of saving to a USB device the channel list you are currently using, so that you can recover it later if required.
First connect your USB device to the receiver, using a free USB port on the receiver. Then select the “Save Channel List to USB” field and confirm the start of saving by pressing the OK button. During the saving process you will see the “Update via a USB” menu displayed; however you cannot navigate within this menu until the save process has been completed.

The function “Update Channel List” allows you to reload the saved channel list to the receiver at a later date, should you so require.

**The channel list “channel.xml” is saved on the USB storage medium in the root folder. To be able to load this list onto the UFS 912 again, you must copy this channel list to the following folder structure with the aid of a PC/laptop:**
**Main folder: kathrein**
**Subfolder: ∟ ufs912**

## Factory Reset

After calling up the menu you will see the following on-screen display:




You can here restore the channel list and the installation settings to the factory settings. You can use the ▲ ▼ buttons to select the components to be restored to their factory settings. In each case use the ◄ ► buttons to select “Yes” or “No”.

In addition you can select whether after the restoration the first installation should automatically be started, as for the initial set-up.

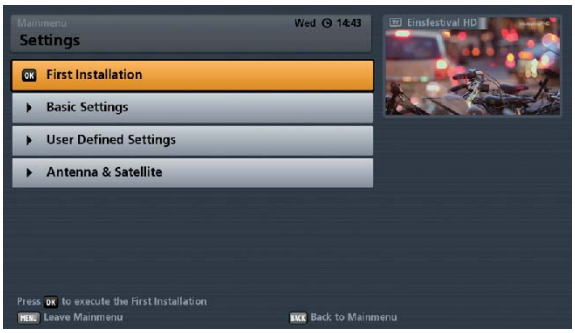
Once you have performed all the settings, use the ▲ ▼ buttons to switch to the “Start Reset” selection field and confirm the start using the OK button. The components you selected will now be reset to the status at the delivery of the unit.

# Main Menu - Settings

After calling up the menu you will see the following on-screen display:

You can choose between various different menus:

- First Installation
- Basic Settings
- User Defined Settings




Use the ▲ ▼ buttons to select the desired menu and confirm your selection using the OK button.

## First Installation

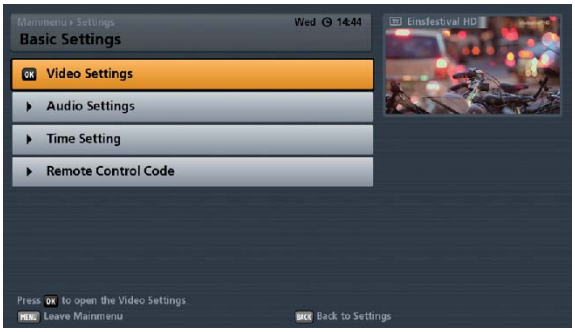
For this see the section “Connection and Set-Up”, “First Installation”.

## Basic Settings

After calling up the menu you will see the following on-screen display:

You can choose between various different menus:

- Video Settings
- Audio Settings
- Time Setting
- Remote Control Code




Use the ▲ ▼ buttons to select the desired menu and confirm your selection using the OK button.

## Video Settings

After calling up the menu you will see the following display (depending on the selected signal output):

**For output of the TV picture via the HDMI output:**

Video Settings
Video Output via : HDMI / YUV
HDMI/YUV Resolution : 1080i
Default HDMI : HDMI
HDCP : Off
Show 4:3 Event : Normal (Pillarbox)
Leave Mainmenu
Back to Basic Settings

**For output of the TV picture via the Scart-TV output:**

The individual items are selected using the ▲▼ buttons. Changes to the current settings can be made using the ◄► buttons. **When doing this, refer to the operating instructions for your TV set!**

**Video Output via**

Select here the connection on the receiver to which you have connected your TV set.
Either

**HDMI/YUV (see also note on the next page)** **or** **SCART**

**HDMI/YUV Resolution**

Here you can select the picture resolution that will be sent to the TV set. Either

- 1080i (resolution 1920 x 1080, half-screen images)
- 576p (resolution 720 x 576, full-screen images)
- 720p (resolution 1280 x 720, full-screen images) or
- Automatic

**TV Aspect Ratio**

Select here the picture format for your TV set. Either

- 4:3 or
- 16:9

**Picture Format**

Select here the type of screen display, *depending on the setting of your TV format*.
Either

**Force 576i (must be supported by the TV set otherwise you will not see a TV picture)**

You can only/only need to make this setting if you have selected the setting “Automatic” for “HDMI/YUV Resolution”. If for a programme that is transmitted in the format 720 x 576 (standard TV), the original format is to be transmitted to the TV set, select the “On” setting. If the setting is “Off”, the programme may be automatically scaled-up to the HDTV format 720p by the receiver.

**Default HDMI**

Here you can set the connection over which you want to connect the TV set and the receiver. Choose either HDMI or DVI.

**HDCP (digital copy protection)**

Select here whether HDCP (digital copy protection) is to be constantly activated “On” or deactivated “Off”.
To view some programmes it may be necessary for the setting to be set to “On”.

**Show 4:3 event**

Here you can select the type of screen display mode for 4:3 broadcasts on a 16:9 TV set. Either

- Normal (Pillar Box)
- Stretched (Full Screen) or
- Zoomed in (Pan & Scan)

**Important instruction for picture output using “YUV”:**

**The “YUV” output option can only be used if “RGB” is not selected as the output signal for the TV Scart socket! In this case, select “Y/C” or “FBAS” as the output signal for the TV Scart socket.**

- Pan & Scan (only for “4:3”)
- Letterbox (only for “4:3”)
- Automatic (only for “16:9”) or
- Always 16:9 (only for “16:9”)

**TV-SCART-Output**

Select here the type of video signal to be output at the TV Scart socket here. Select the signal that your TV set can process. Either

- RGB (Red/Green/Blue signal)
- Y/C (S-Video signal, luminance/chrominance) or
- FBAS (Video)

**VCR-SCART-Output**

Select here the type of video signal to be output at the VCR Scart socket here. Select the signal that your recorder can process. Either

- Y/C (S-Video signal, luminance/chrominance)
- FBAS (Video)

**Television System**

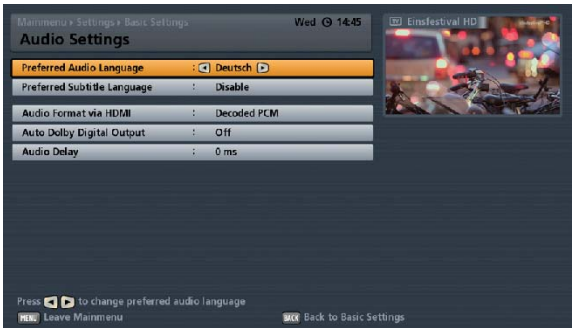
Select here the TV standard applicable for your region/country. Either

- PAL (e.g. for Germany and Austria) or
- NTSC (e.g. for USA and Canada)

## Audio Settings

After calling up the menu you will see the following on-screen display:

The individual items are selected using the ▲ ▼ buttons.
Changes to the current settings can be made using the ◄ ► buttons.


Mainmenu › Settings › Basic Settings
Wed 14:45
Audio Settings
Preferred Audio Language : Deutsch
Preferred Subtitle Language : Disable
Audio Format via HDMI : Decoded PCM
Auto Dolby Digital Output : Off
Audio Delay : 0 ms
Einsfestival HD
Press to change preferred audio language
MENU Leave Mainmenu
BACK Back to Basic Settings

**Preferred Audio Language**

Select here your preferred audio language. You can choose between the following languages: German, English, French, Italian, Spanish, Czech, Dutch, Polish, Turkish or Russian.

**Preferred Subtitle Language**

Select here your preferred subtitles language. You can choose between the following languages: Deactivated (off), German, English, French, Italian, Spanish, Czech, Dutch, Polish, Turkish or Russian.

**Audio Format via HDMI**

Here you can select the type of audio signal that is transmitted by the HDMI interface together with the TV picture. Either

- Decoded PCM or
- S/PDIF format

**Automatic Dolby Digital Output**

Here you can select whether the receiver should automatically output the Dolby Digital signal (if this is transmitted). Either

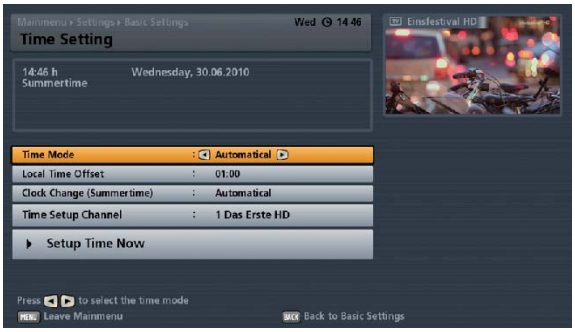
- On or
- Off

**Audio Delay**

Here you can set a delay in milliseconds, if the sound output from your receiver is out of synch with the TV picture (lip synchronicity). The delay can be adjusted in 10 millisecond steps from 10 ms up to 150 ms and then in further steps of 25 milliseconds to 250 ms.

## Time Setting

After calling up the menu you will see the following on-screen display:




The individual items are selected using the ▲ ▼ buttons.
Changes to the current settings can be made using the ◄ ► buttons.

**Time Mode**

Here you can select whether the time information should be obtained by the receiver automatically from a specific channel that you select or whether the time information should be entered manually. Either

- Automatical or
- Manual

**Local Time Offset**

Here you can select the local time offset to UTC (formerly GMT) (e.g. + 1 hour for Germany). You can set the offset in 30 minute steps. The maximum offset is 11 hours and 30 minutes (+ and -).

**Clock Change (Summertime)**

Here you can select whether the receiver should automatically change over to and from summer and winter time. The “Manual” setting only makes sense if you also selected “Manual” for the selection item “Time Mode”, since otherwise the time information is obtained automatically by the receiver. Either

- Automatical or
- Manual

**Time Setup Channel (only works if the time setup is set to “Automatical”)**

Here you can select the channel from which the receiver should obtain the time information.

Press the OK button to call up a channel list from which you can select the channel you want using the cursor (✥) buttons. Confirm your selection with the OK button.

**Setup Time Now**

Press the OK button. Depending on the desired time setup option (Automatic/Manual) the following on-screen display then appears:

**Automatical**

You need not make any further entry, the receiver will automatically update the date and time.

**Manual**

Use the number pad or the ◄ ► buttons to enter the correct date. Then use the ▲ ▼ buttons to switch to the “Time” field and use the number pad or the ◄ ► buttons to enter the correct time. Then use the OK button to confirm your entry.

## Remote control code

After calling up the menu you will see the following on-screen display:

Basic Settings
Change remote control code
To change the code, press at the same time
BACK + 9 + 1 for Code 1
BACK + 9 + 2 for Code 2
BACK + 9 + 3 for Code 3
BACK + 9 + 4 for Code 4
OK Leave
BR-alpha

You can use this function to allow you to operate several receivers (e.g. four UFS 912 units) using the same remote control. You can assign each receiver its own remote control code. This pre-supposes that the receiver was supplied with the RC 670 remote control (e.g. UFS 912) or with the RC 660 remote control (e.g. UFS 910).

You can now use the remote control for your receiver to set a new remote control code (the remote control code 1 is set as standard). Simultaneously press buttons:

- BACK + 9 wxyz + 1 .,:;@ for remote control code 1
- BACK + 9 wxyz + 2 abc for remote control code 2
- BACK + 9 wxyz + 3 def for remote control code 3
- BACK + 9 wxyz + 4 ghi for remote control code 4

Then press the OK button. If the receiver display does not close down, the receiver and the remote control are not set to the same remote control code. Check your settings again.

To set the remote control in future for whatever remote control code is required, proceed as follows:

- BACK + 1 .,:;@ for remote control code 1
- BACK + 2 abc for remote control code 2
- BACK + 3 def for remote control code 3
- BACK + 4 ghi for remote control code 4

**If you have another Kathrein receiver in use that was supplied with the RC 660 remote control, you can use the UFS 912 remote control to operate that other receiver also. On the UFS 912 remote control, the codes for remotely controlling the RC 660 begin with "5":**

**BACK + 5 jkl = remote control code 1 for the RC 660,**

**BACK + 6 mno = remote control code 2 for the RC 660,**

**BACK + 7 pqrs = remote control code 3 for the RC 660,**

**BACK + 8 tuv = remote control code 4 for the RC 660**

## User Defined Settings

After calling up the menu you will see the following on-screen display:

You can choose between various different menus:

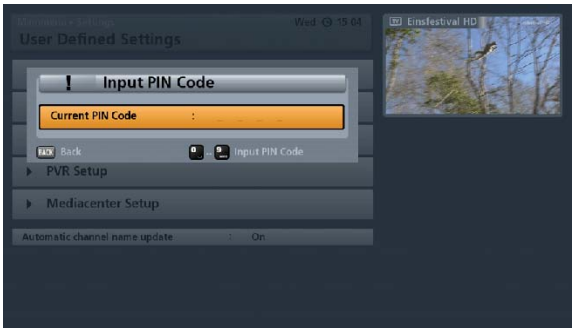
- Parental Lock
- Customize Screen Menu
- EPG Setup
- PVR Setup
- Mediacenter Setup
- Automatic channel name update

Use the ▲ ▼ buttons to select the desired menu and confirm your selection using the OK button.

## Parental Lock

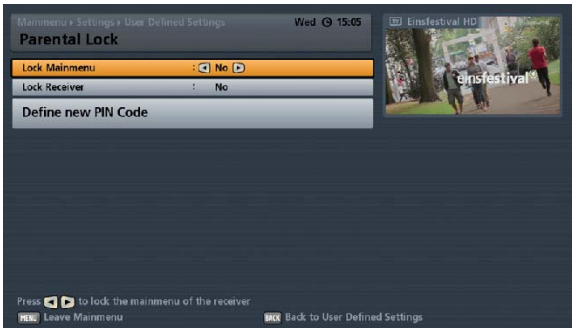
After calling up the menu you will see the following on-screen display:

In order to access this menu, you must enter the four-digit PIN code (factory setting: “0000”).




The following on-screen display then appears:

In this menu you can set various restrictions/parental controls.
The individual items are selected using the ▲ ▼ buttons.
The changes to the current settings can be performed using the ◄ ► buttons or the numeric pad.


Mainmenu › Settings › User Defined Settings
Wed 15:05
Parental Lock
Einsfestival HD
Lock Mainmenu : No
Lock Receiver : No
Define new PIN Code
Press ◄ ► to lock the mainmenu of the receiver
MENU Leave Mainmenu
BACK Back to User Defined Settings

**Lock Mainmenu**

Select here whether the main menu should be locked. If the main menu is locked, the four-digit PIN code will be requested when it is called up. Without the four-digit PIN code (factory setting: “0000”), the main menu cannot be viewed and no changes can be made to the device settings. Either

- “Yes” or
- “No”

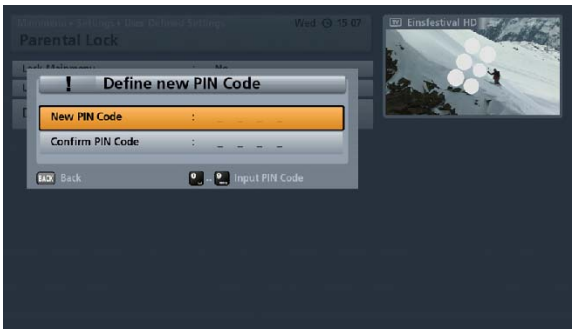
**Lock Receiver**

Select here whether the receiver should be locked. If the receiver is locked, the four-digit PIN code will be requested when it is switched on. Without the four-digit PIN code (factory setting: “0000”), the receiver cannot be operated. Either

- “Yes” or
- “No”

**Define new PIN Code**

Confirm the selection with the OK button. The following on-screen display appears:




Use the number pad to enter your new four-digit PIN code. When the fourth digit has been entered, the receiver will automatically to the next line “Confirm PIN Code”. For security you must now repeat the entry of the four-digit PIN code.

Your device PIN code has now been changed.

**Keep your four-digit PIN code in a safe place, so that you always have access to your channels should you ever forget it.**

**If you have forgotten your password, you must contact your dealer, who will be able to unlock your receiver for you.**

## Customize Screen Menu

After calling up the menu you will see the following on-screen display:

Mainmenu › Settings › User Defined Settings
Wed 15 08
Customize Screen Menu
Einsfestival HD
Sleep Timer : Off
Channel Banner Duration : 4 s
Playback Banner Duration : 4 s
Display Volume Bar : On
Front Display Brightness : Bright
Front Display in Standby : Off
Front Display Notification : Channel
Press to change Sleep Timer
MENU Leave Mainmenu
BACK Back to User Defined Settings

The individual items are selected using the ▲ ▼ buttons.
The changes to the current settings can be performed using the ◄ ► buttons or the numeric pad.

### Sleep Timer

You can use the “Sleep Timer” function to set an inactive time period after which the receiver will automatically switch into “Standby” mode. To do this, use the ◄ ► buttons to select “On”. Exit the menu using the MENU button. Now press the on/off button. The receiver now displays a window, in which you can use the ◄ ► buttons to select the desired inactive time period for the receiver. After this the receiver will run quite normally, then at the expiry of the inactive time period that was entered, automatically switch into “Standby” mode.

If you do not start entering the inactive time period within five seconds of the window appearing, the receiver will automatically revert to “Standby” mode.

### Channel Banner Duration

Select here how long the channel information should be displayed after a change of channel. The options available are 1, 2, 3, 4, 5 or 6 seconds.

### Playback Banner Duration

Select here how long the playback information should be displayed after a the start of playback. The options available are 1, 2, 3, 4, 5 or 6 seconds.

### Display Volume Bar

Select here whether on changing the volume using the receiver remote control the volume bar should be displayed on the TV screen (selection: “On”) or should not be displayed (selection: “Off”).

### Front Display Brightness

Set the front display brightness here. Select the most comfortable setting for your ambient lighting. Your available options are:

- Bright
- Medium
- Dark or
- Off (display is not switched on/lit during operation)

### Front Display in Standby

Select here whether the front display is illuminated in standby mode. **To achieve the rated standby power consumption of less than one Watt, this setting must be "Off".**

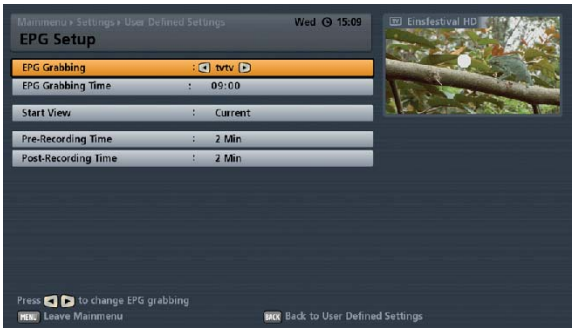
### Front Display Notification

Select here whether during operation the front display should display the name of the channel actually being watched (setting: "Channel") or whether after a short display after changing channel, the time should be should continuously in the front display (setting: "Time").

## EPG Setup

After calling up the menu you will see the following on-screen display:

The individual items are selected using the ▲ ▼ buttons. The changes to the current settings can be performed using the ◀ ▶ buttons or the numeric pad.


Mainmenu › Settings › User Defined Settings
Wed 15:09
EPG Setup
EPG Grabbing : tvtv
EPG Grabbing Time : 09:00
Start View : Current
Pre-Recording Time : 2 Min
Post-Recording Time : 2 Min
Einsfestival HD
Press ◀ ▶ to change EPG grabbing
MENU Leave Mainmenu
BACK Back to User Defined Settings

### EPG Grabbing

Select here the data with which the EPG should be updated/filled. In order to exploit the full capability of the Premium tvtv EPG, this setting must be "tvtv". If the setting is "SI", the EPG will be filled with the conventional SI data broadcast by the transmitters. These are less comprehensive than the tvtv EPG data and also do not extend to 14 days ahead. With the setting "Off", the EPG is not updated at night.

**EPG Grabbing Time**

Select here the time at which the receiver's EPG data should be updated. Since updating can take up to 45 minutes it is recommended that the grabbing time should be during the night when the receiver is not being used. The receiver (which must be in standby mode) switches itself on out of standby mode and updates the EPG data. After updating the data, the receiver switches back to the standby mode. Scheduled recordings do not affect this; the receiver then carries out the update automatically later when recording is finished.

**Start View (EPG)**

Select here the view that you generally want to see at the start of the EPG. You can choose between the “Current” view and the “Preview (programme listings)” view.

**Pre-Recording Time**

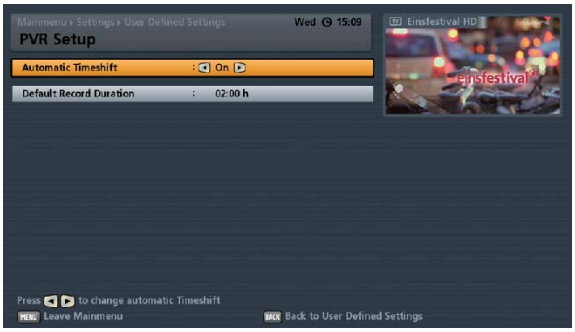
Select here the number of minutes before the time set in the EPG at which the recording should start. You can choose a value between one minute and 30 minutes, in one minute increments. The recording will start that number of minutes before the due time. This allows a contingency for small variations in transmission times.

**Post-Recording Time**

Select here the number of minutes after the time set in the EPG for which the recording should run on. You can choose a value between one minute and 30 minutes, in one minute increments. The recording will stop that number of minutes after the due time. This allows a contingency for small variations in transmission times.

## PVR (recording) Setup

After calling up the menu you will see the following on-screen display:


Mainmenu › Settings › User Defined Settings
Wed 15:09
PVR Setup
Einsfestival HD
Automatic Timeshift : On
Default Record Duration : 02:00 h
Press to change automatic Timeshift
MENU Leave Mainmenu
BACK Back to User Defined Settings

The individual items are selected using the ▲ ▼ buttons. Changes to the current settings can be made using the ◄ ► buttons.

### Automatic Timeshift

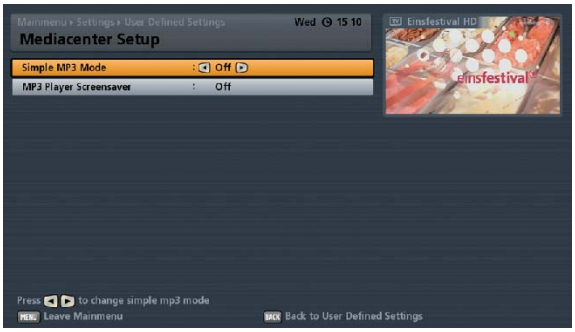
Select here whether automatic timeshifting is enabled or disabled. If this setting is set to “On”, the receiver automatically (in the background) starts recording the programme you are viewing as soon as you switch to the channel.
Then, in manual record mode, you can decide whether to record the programme from the current time or from the time you switched to the channel. The advantage of this is that you do not lose the part of the programme you were watching before you decided to record it! When you select “Off” you can only record the programme as from the point you press Record, and lose the portion of the programme before you started recording. For this see also the sections “Basic Operation”, “Automatic timeshift”.

### Default Record Duration

Select here the default record duration. If the channel information gives no start time and end time for the programme that is to be recorded, the receiver will automatically use the default record duration that is set here. You can choose between 30 minutes and 3 hours, in 30 minute increments.

## Mediacenter Setup

After calling up the menu you will see the following on-screen display:
The individual items are selected using the ▲▼ buttons. Changes to the current settings can be made using the ◄► buttons.


Mainmenu › Settings › User Defined Settings
Wed 15 10
Einsfestival HD
Mediacenter Setup
Simple MP3 Mode : Off
MP3 Player Screensaver : Off
Press ◄► to change simple mp3 mode
MENU Leave Mainmenu
BACK Back to User Defined Settings

**Simple MP3 Mode**

Here you can use the ◄► buttons to select “Simple MP3 Mode” (On/Off). You need to perform this setting if the receiver, in conjunction with the UPnP server, encounters problems with playing MP3 files.

**MP3 Player Screensaver**

Here you can use the ◄► buttons to select “MP3 Player Screensaver” (On/Off). In the case of the selection of “On” on the playback of MP3 files, only playback information for the file currently played back is displayed. The position of the playback information changes approx. every five seconds.

## Automatic channel name update

Here you can use the ◄► buttons to set whether when the name of a channel is changed the receiver automatically updates the name of the channel in the channel list (setting: “On”). If the setting is “Off”, the old channel name will be retained.

## Antenna & Satellite

After calling up the menu you will see the following on-screen display:

You can choose between various different menus:

- Sat Finder
- Tuner Configuration
- Edit Satellites
- Edit Transponders

Use the ▲▼ buttons to select the desired menu and confirm your selection using the OK button.

## SatFinder

After calling up the menu you will see the following on-screen display:

If you do not have a meter for adjusting your reflector, you can use the sat finder as an alignment aid.
**However the sat-finder is not a complete substitute for a meter.**
The individual items are selected using the ▲▼ buttons. The changes to the current settings can be performed using the ◄► buttons or the number pad.

**Satellite**

Select the satellite on which the transponder to be tested is located. Make sure your reception system is aligned to this/these selected satellite(s).

**Frequency**

Use the ◄► buttons (transponder frequency already saved) or the number pad (transponder frequency not yet saved) to select the transponder frequency to be tested. At the bottom right of the on-screen display, the receiver shows the current signal strength and signal quality of the selected transponder.

**The “DVB Type”, “FEC”, “Polarisation” and “Symbol Rate” options only need to be specified if the transponder has yet to be saved.**

**DVB Type**

Select here whether standard channels (DVB-S (SD)) or HDTV channels (DVB-S2 (HDTV)) should be received from the desired transponder.

**FEC**

Select the applicable error rate (Viterbi rate). You need not state the error rate for the DVB S(SD) transponders. Instead a fixed display of “Automatic” appears. You must state the correct error rate for the DVB S2(HD) transponders. Either QPSK 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 or 8PSK 2/3, 3/4, 3/5, 5/6, 8/9 or 9/10.

**Polarisation**

Select the correct polarisation (horizontal or vertical).

**Symbol Rate**

Use the number pad to enter the related symbol rate.

## Tuner Configuration

Since the tuner configuration is very detailed, we have dedicated it a section all to itself. For this see the section “Tuner-Configuration”

## Edit Satellites

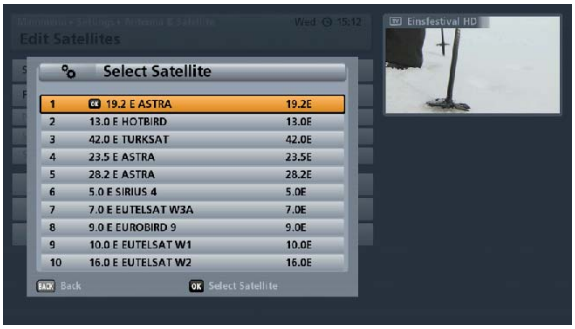
After calling up the menu you will see the following on-screen display:

The individual items are selected using the ▲ ▼ buttons.
If you require to access submenus, they can be called up using the OK button.
The changes to the current settings can be performed using the ◄ ► buttons or the number pad.

**The settings of the satellites should be performed by a specialist engineer for the respective reception system. Only make these settings yourself if you are fully familiar with the particulars of your reception system.**

### Satellite Name

Select here the satellite that you want to edit/delete, or whose name you want to change. By pressing the OK button at this point you can view a list of the satellites saved in the receiver. Use the ▲ ◄ ► ▼ buttons to select the satellite you want and confirm your selection with the OK button.

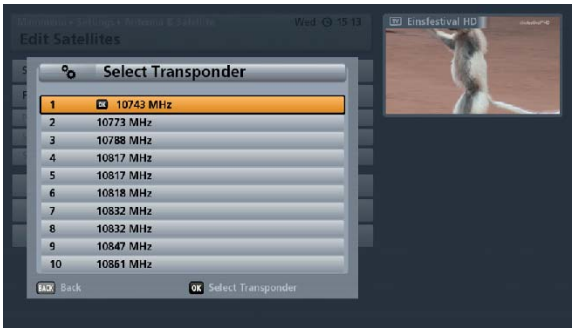

Edit Satellites
Wed 15:12
Einsfestival HD
Select Satellite
1 19.2 E ASTRA 19.2E
2 13.0 E HOTBIRD 13.0E
3 42.0 E TURKSAT 42.0E
4 23.5 E ASTRA 23.5E
5 28.2 E ASTRA 28.2E
6 5.0 E SIRIUS 4 5.0E
7 7.0 E EUTELSAT W3A 7.0E
8 9.0 E EUROBIRD 9 9.0E
9 10.0 E EUTELSAT W1 10.0E
10 16.0 E EUTELSAT W2 16.0E
BACK Back
OK Select Satellite

**Frequency**

Select here the desired transponder.

By pressing the OK button at this point you can view a list of the transponders saved in the receiver for this satellite.

Use the buttons to select the transponder you want and confirm your selection with the OK button.




**Symbol Rate**

The symbol rate is positively assigned to each saved transponder, and cannot be changed.

**Polarisation**

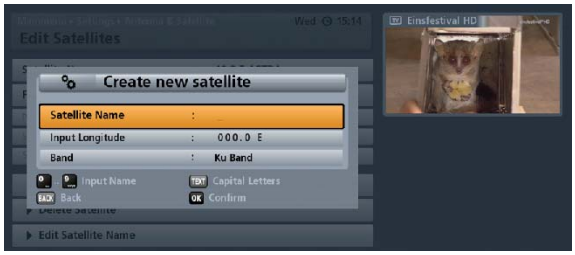
The polarisation is positively assigned to each saved transponder, and cannot be changed.

**Satellite Longitude**

A fixed longitude is assigned to each saved satellite, and cannot be changed.

**New Satellite**

By pressing the OK button you can call up the input screen to save a new satellite.
The following on-screen display appears:




Satellite Name:

Use the number pad to enter a name for the new satellite. Alphanumeric characters are entered as described in “Operating instructions”, “Alphanumeric entries”.

Input Longitude:

Then switch to the “Input Longitude” field and use the number pad to enter the desired longitude.

Use the buttons to choose between E (East) and W (West).

Band:

Use the ◄ ► buttons to select the correct band for the new satellite.

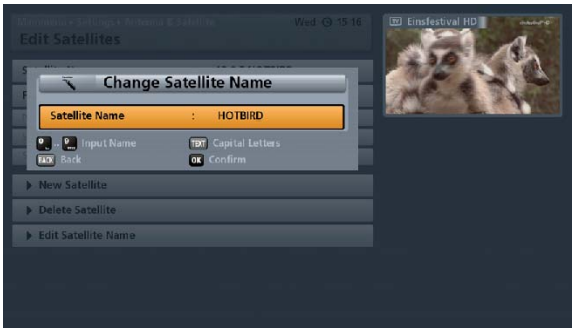
When all settings have been made, press the OK button to save the new satellite.

**Delete Satellite**

Press the OK button to delete the currently selected satellite. As a security feature you are asked to confirm again by pressing the OK button that you really want to delete the satellite.

**Edit Satellite Name**

By pressing the OK button you can call up the input screen which allows you to change the name of the currently selected satellite. Use the keypad to enter a new name for the satellite. Alphanumeric characters are entered as described in “Operating Instructions”, “Alphanumeric entries”.



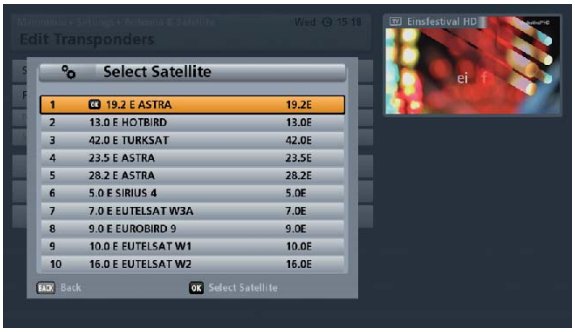

## Edit Transponder

After calling up the menu you will see the following on-screen display:
The individual items are selected using the ▲ ▼ buttons. If you require to access submenus, they can be called up using the OK button. The changes to the current settings can be performed using the ◄ ► buttons or the number pad.

**The settings for transponders should be performed by a specialist engineer for the respective reception system. Only make these settings yourself if you are fully familiar with the particulars of your reception system.**

### Satellite Name

Select here the satellite for which you want to edit/delete the transponder, or for which you want to add a new transponder. By pressing the OK button at this point you can view a list of the satellites saved in the receiver.


Edit Transponders
Select Satellite
1 19.2 E ASTRA 19.2E
2 13.0 E HOTBIRD 13.0E
3 42.0 E TURKSAT 42.0E
4 23.5 E ASTRA 23.5E
5 28.2 E ASTRA 28.2E
6 5.0 E SIRIUS 4 5.0E
7 7.0 E EUTELSAT W3A 7.0E
8 9.0 E EUROBIRD 9 9.0E
9 10.0 E EUTELSAT W1 10.0E
10 16.0 E EUTELSAT W2 16.0E
Back
Select Satellite
Einsfestival HD

Use the buttons to select the satellite you want and confirm your selection with the OK button.

### Frequency

Select here the transponder to be edited/deleted. By pressing the OK button at this point you can view a list of the transponders saved in the receiver for this satellite. Use the buttons to select the transponder you want and confirm your selection with the OK button.

### Symbol Rate

The symbol rate is positively assigned to each saved transponder, and cannot be changed.

### Polarisation

The polarisation is positively assigned to each saved transponder, and cannot be changed.

**Edit Transponder**

By pressing the OK button you can call up the input screen which allows you to edit/change the settings of the previously selected transponder.

Frequency:

Here you are shown the selected transponder to be edited. The transponder frequency cannot be changed.

DVB Type:

Select here whether the selected transponder is to receive standard channels (DVB-S (SD)) or HDTV channels (DVB-S2 (HD)).

Error rate:

You only need to enter the error rate if this is a transponder for reception of HDTV channels (DVB-S2 (HD)). You can choose between the following error rates: QPSK 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 or 8PSK 2/3, 3/4, 3/5, 5/6, 8/9 or 9/10.

Polarisation:

Select here the applicable polarisation for the selected transponder. Either “Horizontal” or “Vertical”.

Symbol Rate:

Use the number pad to enter the related symbol rate.

When all settings have been made, press the OK button to save the changes.

**New Transponder**

By pressing the OK button you can call up the input screen to save a new transponder. The following on-screen display appears:

Frequency:

Use the number pad to enter the transmission frequency for the new transponder.

DVB Type:

Select here whether the selected transponder is to receive standard channels (DVB-S (SD)) or HDTV channels (DVB-S2 (HD)).

Error rate:

**FEC**

Select the applicable error rate (Viterbi rate). You need not state the error rate for the DVB S (SD) transponders. Instead a fixed display of “Automatic” appears. You must state the correct error rate for the DVB S2 (HD) transponders. Either QPSK 1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 or 8PSK 2/3, 3/4, 3/5, 5/6, 8/9 or 9/10.

Polarisation:

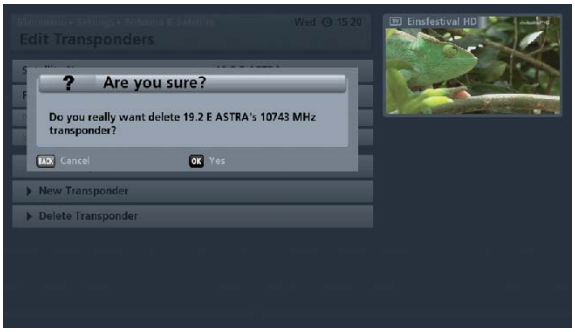
Select here the applicable polarisation for the selected transponder. Either “Horizontal” or “Vertical”.

Symbol Rate:

Use the number pad to enter the related symbol rate.

When all settings have been made, press the OK button to save the new transponder.

**Delete Transponder**




Press the OK button to delete the currently selected transponder. As a security feature you are asked to confirm again by pressing the OK button that you really want to delete the transponder.

# Main Menu - Interfaces (CI, hard disk and network)

After calling up the menu you will see the following on-screen display:

You can choose between various different menus:

- Common Interface
- HDD Management
- Ethernet Settings

Use the ▲ ▼ buttons to select the desired menu and confirm your selection using the OK button.

## Common interface

### Important information

**Always follow the operating instructions from your Pay TV provider and the instructions supplied with the smart card and the CA module!**

**Smart cards and CA modules are not included with this product!**

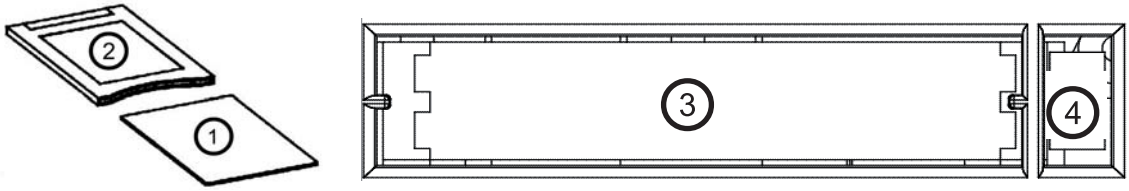
**The cards and modules are issued by the respective pay TV providers, and contain the subscriber data and details of the channels for which the subscriber has paid. These channels are always scrambled.**
**Contact the Pay TV provider if you are interested in subscribing to a particular Pay TV channel.**

**You are responsible for the use of the smart card in the CA!**

**The smart card sold by the Pay TV provider, specific to a particular encryption technology, is inserted into the CA module.**

**Store your card and PIN code securely when not in use!**

## Inserting the smart card and the CA module




Inserting the CA module into the CI

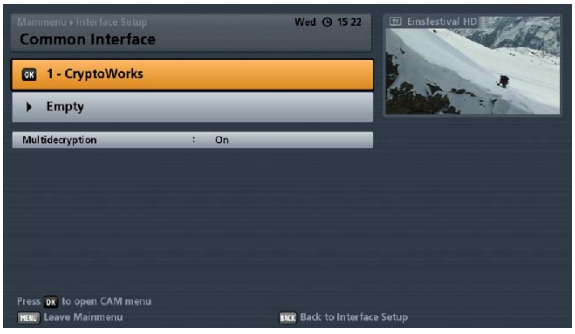
The Common Interface (CI) (3) of the UFS 912 is suitable for the use of two CA (Conditional Access) modules. These two CI slots are on the left on the front (behind the flap).

The CA module (2) receives Smartcard (1) (chip contacts pointing upwards and towards socket strip) and is then inserted into one of the two CI slots (3).
The smart card should be inserted into the CA module without exerting excessive force. This also applies to inserting the CA module into the CI slot! Do not use a excessive force and follow the instructions supplied with the smart card and the CA module.

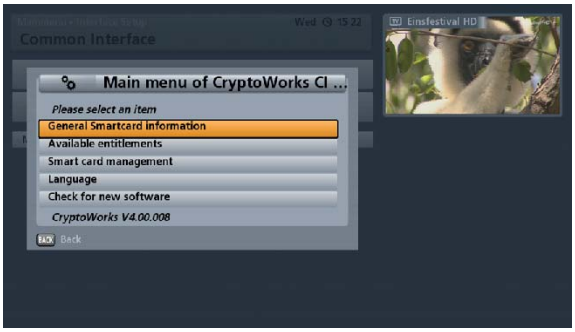
To remove the module, press the relevant eject button (4).

You can find out which Conditional Access modules are in the CI slots on the UFS 912 and which Smartcard is in which CA module from the “Mainmenu” under “Interfaces”, and the “Common Interface” menu. Confirmation is by pressing the OK button.

**The screenshots below depend on the specific module and card, and so are only intended as examples:**



Press the OK button to access the menu generated by the CA module:




From this menu, your card and your PIN code allow you to access various channels from your Pay TV provider.
“CryptoWorks” has been selected as an example here. The details can be different for each CA module. Always follow the instructions supplied by your Pay TV provider!

**Note:** *The module on-screen displays may be shown in English, even if you have selected German as the menu language, because the menu is generated directly by the module!*

## Multidecryption

If your CA module is capable of decrypting multiple channels, you can press the ◄ ► buttons to select whether the module should always decrypt only one channel (Off) or multiple channels simultaneously (On). This function is optimised for “AlphaCrypt” modules and may lead to malfunctions with other modules.

If you select “Off”, when making an unencrypted recording of an encrypted channel you cannot at the same time view any other encrypted channel through the same CA module and the currently selected transponder.

If you select “On”, when recording an encrypted channel you can at the same time view any other encrypted channel through the same CA module and the currently selected transponder. The number of other encrypted channels that you can view depends on the CA module you are using.

# Main Menu - Interfaces (CI, hard disk and network)

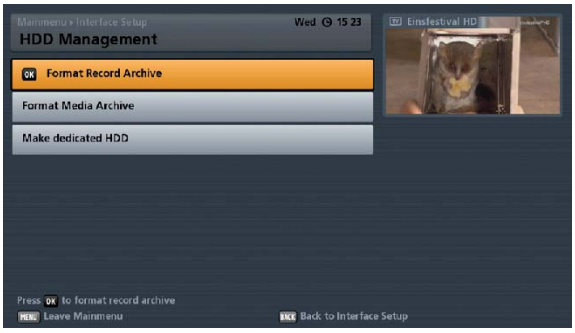
**Information for Conax, SECA, Viaccess and CryptoWorks users:**
**Note that with monthly activation intervals, the channel providers have different procedures for activating pay TV cards. Activation may therefore be a few days before or after the beginning of a new month. During this activation period, the CA module and card must be in the slot, and the receiver must be turned on and set to the booked Pay TV channel. Follow the instructions from the Pay TV provider.**

**If your Pay TV card is then still not enabled, we recommend you briefly withdraw the CA module with the card out of the slot, with the receiver switched on, and then re-insert it.**

**This information has nothing to do with the properties of the receiver; it is merely intended to assist you.**

## HDD Management

After calling up the menu you will see the following on-screen display:




You have the following selection options:

- Format Record Archive (delete)
- Format Media Archive (delete)
- Make dedicated HDD *)

**You can only use the first two functions if an archive hard disk has already been set up.**
**Deleted data cannot be restored - it is irrevocably deleted!**

Use the ▲ ▼ buttons to select the desired action.

**Format Record Archive**

Pressing the OK button irrevocably deletes all recordings (TV and radio) currently stored on the hard disk connected to the receiver. As a security feature you are asked to confirm again by pressing the OK button that you really want to delete these files.

*) Tested only with hard disks from the Kathrein product range (see also: www.kathrein.de → Service → FAQs)

**Format Media Archive**

Pressing the OK button irrevocably deletes all music (MP3) and images (JPEG) files currently stored on the hard disk connected to the receiver. As a security feature you are asked to confirm again by pressing the OK button that you really want to delete these files.

**Make dedicated HDD**

To set up an archive hard disk, press the OK button (see “Connection and Set-Up”, “First Installation”, “Setting up archive hard disk”).

**To make recordings using the UFS 912 and utilise the timeshifting and recording archive functions you must connect an external hard disk *) to the rear of the receiver (USB) and set it up.**

## Ethernet Settings

After calling up the menu you will see the following on-screen display:

**These settings should not be made unless the receiver is linked into a network or is linked to a PC/laptop using a crossed over network cable. The Ethernet interface used in the receiver is a 10/100 base T Ethernet interface.**

If you want to connect your receiver to a DHCP server, use the ◄ ► buttons to select the “On” setting. If you want to connect your receiver directly to a PC or laptop, the DHCP setting must be “Off”.

## DHCP “On” (DHCP server/router)

## DHCP “Off” (Hub/switch/direct connection to PC or laptop)

The individual items are selected using the ▲▼ buttons. The changes to the current settings can be performed using the ◄► buttons or the numeric pad.

Use the ▲▼ buttons to select the “Get IP Address” field and confirm by pressing the OK button.

Your DHCP server now indicates the IP address to the receiver. As soon as the receiver has received its IP address from the DHCP server (and the IP address is displayed), switch to the “Save” field and confirm by pressing the OK button.

**If with the “DHCP On” setting no connection can be established between the receiver and DHCP server/ router, switch the setting to “DHCP Off” and make the setting as described for (DHCP “Off”).**

Make the settings for your network as required. When you have completed all the settings, switch back to the “Save” field and press the OK button to confirm.

**<u>Configuration example:</u>**

**Receiver:**

IP address: 192.168.1.16
Subnet Mask: 255.255.255.0

**PC/Laptop:**

IP address: 192.168.1.10
Subnet Mask: 255.255.255.0

**Note:** *Refer to our network function connection examples at the end of this manual and the instructions on this subject available on the Internet under "www.kathrein.de" "Service" → "Software and Downloads" → "Receiver" → "UFS 912".*

**When connecting the receiver to a suitable FTP program, note the following:**

**User name: root**
**Password: 0000**

**You require both of these components to obtain access to the receiver via your FTP program.**

**The password is the receiver's PIN code. This is set in the "Parental Lock" menu. The factory setting is "0000".**

# Main Menu - Applications

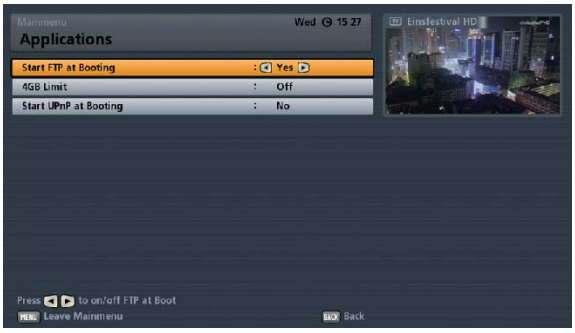
**Any modifications to the receiver software, or the use of applications not provided by Kathrein, will invalidate the warranty! You will have to bear the costs yourself for shipping and repairing any receiver that requires attention due to modifications to the software and use of applications other than those provided by Kathrein!**

**Therefore you should use exclusively software and applications provided by Kathrein for your receiver. This is available by downloading from the satellite or from the Internet (www.kathrein.de).**

This menu displays applications that are installed on your UFS 912. This menu allows you to start and stop these applications. To do this, follow the instructions displayed and the explanations on the menu.

## Applications

The Applications menu is called up from the main menu. First press the MENU button and then use the ▲ ▼ buttons to select “Applications” and press the OK button to confirm and call up the menu. The following on-screen display appears (example):




Use the ▲ ▼ buttons to select the setting to be changed and make the changes using the ◄ ► buttons.

- Start FTP at Booting:

  Here, you can select whether “FTP” is to be activated when starting the receiver

- 4GB Limit:

  Here, you can select whether the 4GB file limit (required for FAT32 partitions) is to be activated/ deactivate. If this limit is switched off, recordings can be transferred via the network to the PC as one file (> 4 GB). A prerequisite for this features is that the PC hard disk is formatted in NTFS

- Start UPnP at Booting:

  Here, you can select whether the receiver's internal “UPnP server” is to be activated when starting the receiver

Press the OK or BACK button to exit the settings.

# Main Menu - Language Settings

After calling up the menu you will see the following on-screen display:

Use the ▲ ▼ buttons to select the desired menu language and confirm your selection using the OK button.

The following languages are available for selection: German, English, French, Italian, Spanish, Czech, Dutch, Polish, Turkish and Russian.

The selected menu language is indicated with a check. Press the BACK button to return to the main menu.

# Tuner Configuration

The main menu is called up by pressing the MENU button. The following on-screen display appears:

**The settings for the tuner configuration should be made by a specialist engineer for this reception system.**

**You should only perform the tuner configuration yourself if you are fully familiar with the particulars of your reception system.**

You can set up the tuner configuration for the following types of reception systems:

- Simple LNB
- DiSEqC™1.0
- DiSEqC™1.1
- One Cable System (UAS 481)
- One Cable System (EXR/EXU/User) or
- Motorized Antenna (DiSEqC™1.2/ DiSEqC™1.3)

Use the ▲▼ buttons to select the type of tuner configuration and confirm your selection using the OK button.

**Continue as described in the tuber configuration for the type of reception you selected.**

## Simple LNB

The individual items are selected using the ▲▼ buttons. If you need to access sub-menus, they can be called up using the OK button. The changes to the current settings can be performed using the ◄► buttons or the number pad.

The following on-screen display appears:

...Settings ▸ Antenna & Satellite ▸ Tuner-Configuration
Thu 07 59
Simple LNB
Einsfestival HD
Satellite and Position : 19.2 E ASTRA
LNB-Setting : Universal
LNB Frequency (MHz) : 9750 / 10600 / 11700
Test-Transponder : 1 10743Mhz / 22000MS/s
Signal-Strength: 5 %
Signal-Quality: 0 %
Press OK to select DiSEqC 1.0
MENU Leave Mainmenu
BACK Back to Tuner-Configuration

Satellite and Position:

Press the OK button to display the on-screen display with all the pre-programmed satellites. Use the buttons here to select the satellite from which the signal is present at the tuner, and press the OK button to confirm your selection.

LNB Type:

If your reception system does not have a Universal LNB, use the ◄► buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal
- Simple or
- User-defined

LNB Frequency (MHz):

You only need to specify this data if your LNB type is not “Universal LNB”. The data required differ for the settings “Simple” and “user-defined”. Refer to the documentation supplied for your LNB.

- Selection “Simple” LNB: Use the number pad to enter the LNB frequency
- Selection “user-defined”: Press the OK button to enter the required low, high and limit frequencies. The entry is made using the number pad

Test-Transponder:

Select the “Test-Transponder” field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings for this satellite, press the BACK button twice. The following on-screen display appears:

Press the OK button to save your settings or the BACK button to leave the “Tuner-Configuration” menu without saving.

## DiSEqC™1.0

The individual items are selected using the ▲▼ buttons. If you need to access sub-menus, they can be called up using the OK button. The changes to the current settings can be performed using the ◄► buttons or the number pad.

The following on-screen display appears:

Settings › Antenna & Satellite › Tuner-Configuration
Thu 08:04
Einsfestival HD
DiSEqC 1.0
Number of Satellites : 2
Satellite 1: 19.2 E ASTRA
Satellite 2: 13.0 E HOTBIRD
Press ◄► to select the Number of Satellites
MENU Leave Mainmenu
BACK Back to Tuner-Configuration

Number of Satellites:

Use the ◄► buttons to select how many satellites (max. four) you would like to receive with your reception system.

Use the ▲▼ buttons to select the line “Satellite 1:” and press the OK button to open the settings for the first satellite.

The following on-screen display appears:

...Settings ▸ Antenna & Satellite ▸ Tuner-Configuration
Thu 08 06
DiSEqC 1.0 Satellite 1 of 4
Satellite and Position : 19.2 E ASTRA
LNB Setting : Universal - 9750 / 10600 / 11700 (MHz)
DiSEqC Repeat : Off
Test-Transponder : 3 10788Mhz / 22000MS/s
Einsfestival HD
Signal-Strength: 55 %
Signal-Quality: 95 %
Press OK to select Satellite and Position
MENU Leave Mainmenu
BACK Back

Satellite and Position:

Press the OK button to display the on-screen display with all the pre-programmed satellites. Use the buttons here to select the (first) satellite from which the signal is present at the tuner, and press the OK button to confirm your selection.

LNB Type:

If your reception system does not have a Universal LNB, press the OK button so that you can make the settings for the LNB. You can choose from the following LNB types:

- Universal
- Simple or
- User-defined

If you select “Universal” you need make no further settings. If you select “Simple” you need to enter the low frequency manually. For this, refer to the documentation for your LNB.
If you select “user-defined” you need to manually set all the frequency ranges that are configured for your LNB. For this, refer to the documentation for your LNB. Select the frequency range to be changed and set the values that are correct for your LNB, using the ◄ ► buttons or the number pad. When you have completed all settings, press the OK button.

DiSEqC™ Repeat:

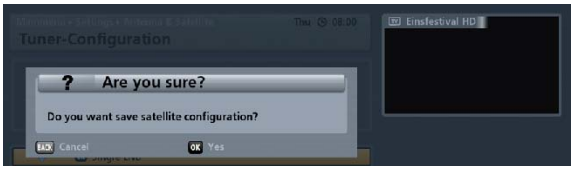
The setting for how often the DiSEqC™ command must be repeated depends on the configuration of your reception system. Refer to the documentation for your reception system or seek assistance from a specialist engineer.

- Off — DiSEqC™ command is not repeated
- 1 — DiSEqC™ command is repeated once
- 2 — DiSEqC™ command is repeated twice or
- 3 — DiSEqC™ command is repeated three times

Test-Transponder:

Select the “Test-Transponder” field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings for this satellite, press the BACK button. In the same way, now make the settings for the number of satellites you selected previously (example: “Satellite 2:”, “Satellite 3:” and “Satellite 4:”). When you have completed all settings for the satellites you required, press the BACK button twice. The following on-screen display appears:




Press the OK button to save your settings or the BACK button to leave the “Tuner-Configuration” menu without saving.

## DiSEqC™1.1

The individual items are selected using the ▲▼ buttons. If you need to access sub-menus, they can be called up using the OK button. The changes to the current settings can be performed using the ◄► buttons or the number pad.

The following on-screen display appears:

Number of Satellites:

Make the settings for the satellites (up to 64 satellites) here. Select the satellite position (1-64) (in the example on the right, the “ASTRA 19.2° East” satellite has been selected in the first position).

Use the ▲▼ buttons to select the line “Satellite 1:” and press the OK button to open the settings/ selection for the first satellite.

The following on-screen display appears:

...Settings ▸ Antenna & Satellite ▸ Tuner-Configuration
Thu 08 08
DiSEqC 1.1 Satellite 1 of 64
Einsfestival HD
Satellite and Position : 19.2 E ASTRA
LNB Setting : Universal
Uncommitted Switch : 1
SatPos : 1
DiSEqC Repeat : Off
Test-Transponder : 1 10743Mhz / 22000MS/s
Signal-Strength: 5 %
Signal-Quality: 0 %
Press OK to select Satellite and Position
MENU Leave Mainmenu
BACK Back

Satellite and Position:

Press the OK button to display the on-screen display with all the pre-programmed satellites. Use the buttons here to select the (first) satellite from which the signal is present at the tuner, and press the OK button to confirm your selection.

LNB Type:

If your reception system does not have a Universal LNB, press the OK button so that you can make the settings for the LNB. You can choose from the following LNB types:

- Universal
- Simple or
- User-defined

If you select “Universal” you need make no further settings. If you select “Simple” you need to enter the low frequency manually. For this, refer to the documentation for your LNB.
If you select “user-defined” you need to manually set all the frequency ranges that are configured for your LNB. For this, refer to the documentation for your LNB. Select the frequency range to be changed and set the values that are correct for your LNB, using the ◄ ► buttons or the number pad. When you have completed all settings, press the OK button.

Uncommitted Switch:

Set the “Uncommitted Switches” here to match the configuration of your reception system. You can select “Off” or a value between “1” and “16” in single unit increments.

SatPos:

Select the field “SatPos”. Set the “SatPos” here to match the configuration of your reception system. You can choose between: “Off” or a value between “1” and “4” in single unit increments.

DiSEqC™ Repeat:

The setting for how often the DiSEqC™ command must be repeated depends on the configuration of your reception system. Refer to the documentation for your reception system or seek assistance from a specialist engineer.

- Off — DiSEqC™ command is not repeated
- 1 — DiSEqC™ command is repeated once
- 2 — DiSEqC™ command is repeated twice or
- 3 — DiSEqC™ command is repeated three times

Test-Transponder:

Select the “Test-Transponder” field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings for this satellite (satellite position), press the BACK button. In the same way as for the first satellite, now make the settings for the other satellite positions you require (max. 64).

When you have completed all settings for the satellite positions you require, press the BACK button twice. The following on-screen display appears:

Press the OK button to save your settings or the BACK button to leave the “Tuner-Configuration” menu without saving.

Uninstall Satellite:

If you want to remove a satellite from your DiSEqC™1.1 configuration, under “Number of Satellites” use the ◄ ► buttons to select the satellite to be removed, and then use the ▲ ▼ buttons to switch to the “Uninstall Satellite” field. Press the OK button to confirm deletion of the satellite. You are now free to select and configure a different satellite for this position.

## Motorized Antenna

The individual items are selected using the ▲▼ buttons. If you need to access sub-menus, they can be called up using the OK button. The changes to the current settings can be performed using the ◄► buttons or the number pad.

The following on-screen display appears:

Use the ◄► buttons here to select the control type to match your reception system.
Either:

- DiSEqC™1.2
- DiSEqC™1.3

Continue as for the explanation for the control type you have selected in this section.

## DiSEqC™1.2

The individual items are selected using the ▲▼ buttons. If you need to access sub-menus, they can be called up using the OK button. Changes to the current settings can be made using the ◄► buttons or the number pad.

**Motor Control**

Select the control type “DiSEqC™1.2”. For this, refer to the documentation for your motorised antenna.

**Go to Null Position**

Select the “Go to Null Position” field. Press the OK button to instruct the turntable to move to its null position.

### Set Borders

Select the “Set Borders” field. In this menu you can set the borders for your turntable. This is particularly necessary if the turntable has only a restricted range in which it can turn before striking an obstruction (such as a wall or tree).

Press the OK button. The following on-screen display appears:

The following buttons allow you to control the movement of the turntable:

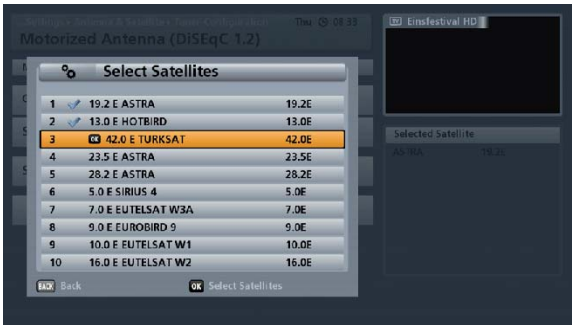
- Start slow rotation to the West
- Rotate to the West step by step
- Stop the current movement
- Rotate to the East step by step
- Start slow rotation to the East

Once you have reached the desired East/West limit, switch to the respective field “Set current position for “****” border” and press the OK button to confirm.

If you subsequently want to delete the set limits, switch to the “Reset border positions” field and press the OK button to confirm deletion of the limits. You can then set new values for the limits. Once you have set all the limits, press the BACK button.

### Select Satellites

Select the “Select Satellites” field. Select here which satellites you wish to receive via your turntable. Pressing the OK button presents an on-screen display of the satellites stored in the receiver:


Motorized Antenna (DiSEqC 1.2)
Einsfestival HD
Select Satellites
1 19.2 E ASTRA 19.2E
2 13.0 E HOTBIRD 13.0E
3 42.0 E TURKSAT 42.0E
4 23.5 E ASTRA 23.5E
5 28.2 E ASTRA 28.2E
6 5.0 E SIRIUS 4 5.0E
7 7.0 E EUTELSAT W3A 7.0E
8 9.0 E EUROBIRD 9 9.0E
9 10.0 E EUTELSAT W1 10.0E
10 16.0 E EUTELSAT W2 16.0E
Back
Select Satellites
Selected Satellite

Use the buttons to select the satellites to be received and confirm your selection in each case using

the OK button. The selected satellites will be identified with a tick.

When you have completed all settings, press the BACK button.

**Configure Satellites**

Select the “Configure Satellites” field.

Press the OK button to allow settings/ selection of the satellite(s).
The following on-screen display appears:

...Settings ▸ Antenna & Satellite ▸ Tuner-Configuration
Thu 08:34
Motorized Antenna Satellite 1 of 2
Einsfestival HD
Satellite and Position : 19.2 E ASTRA
LNB Type Universal
Test-Transponder : 1 10743Mhz / 22000MS/s
Stop on Signal : Off
Move Motorized Antenna
Store actual Position
Signal-Strength: 5 %
Signal-Quality: 0 %
Press OK to select Satellite and Position
MENU Leave Mainmenu
BACK Back

Satellite and Position:

Select the “Satellite and Position” field. From the previously selected satellites, select here the satellite for which you want the turntable to search.

LNB Type:

If your reception system does not have a Universal LNB, press the OK button so that you can make the settings for the LNB.

You can choose from the following LNB types:

- Universal
- Simple
- User-defined

If you select “Universal” you need make no further settings. If you select “Simple” you need to enter the low frequency manually. For this, refer to the documentation for your LNB.
If you select “user-defined” you need to manually set all the frequency ranges that are configured for your LNB. For this, refer to the documentation for your LNB.

Test-Transponder:

Select the “Test-Transponder” field. Select here a test transponder for the satellite being searched for, at which you will be able to detect in the course of the search for the satellite when you have received a signal from the satellite being searched for.

Stop on Signal:

Select the “Stop on Signal” field. Here, you can select whether the motorised antenna should stop its rotary movement immediately on reception of a signal from the desired satellite. You can choose between “On” and “Off”.

Move Motorized Antenna:

Select the “Move Motorized Antenna” field. Here you can control the movements of the motorised antenna, using the following buttons:

Start slow rotation to the West

Rotate to the West step by step

Stop the current movement

Rotate to the East step by step

Start slow rotation to the East

Set the turntable so that both of the bars “Signal-Strength” and “Signal-Quality” on the right of the screen show the highest available percentage values.

Once you have achieved the best reception signal, select the “Store actual Position” field.

Store actual Position:

Once you have achieved the maximum signal strength and signal quality you can save the current position of the turntable for the above mentioned satellite using the OK button.

If you previously selected more than one satellite under “Select Satellites”, you must now make this setting for the other satellites. Switch to the “Satellite and Position” field and select the next satellite. Repeat the set-up of the turntable for this satellite, as described above.

Once you have saved the positions of the turntable for all the selected satellites, press the BACK button three times to exit the menu.

The following on-screen display appears:

Press the OK button to save your settings or the BACK button to leave the “Tuner-Configuration” menu without saving.

## DiSEqC™1.3

The individual items are selected using the ▲▼ buttons. If you need to access sub-menus, they can be called up using the OK button. Changes to the current settings can be made using the ◄► buttons or the number pad.

### Motor Control

Select the control type “DiSEqC™1.3”. For this, refer to the documentation for your motorized antenna.

### My Longitude

Select the “My Longitude” field and use the number pad to enter your actual longitude.

### My Latitude

Select the “My Latitude” field and use the number pad to enter your current latitude.

### Go to Null Position

Select the “Go to Null Position” field. Press the OK button to instruct the turntable to move to its null position.

### Set Borders

Select the “Set Borders” field. In this menu you can set the borders for your turntable. This is particularly necessary if the turntable has only a restricted range in which it can turn before striking an obstruction (such as a wall or tree).

Press the OK button. The following on-screen display appears:

The following buttons allow you to control the movement of the turntable:

◄◄ Start slow rotation to the West

◄ Rotate to the West step by step

■ Stop the current movement

► Rotate to the East step by step

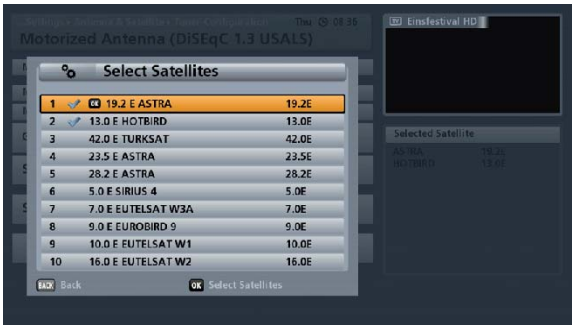
►► Start slow rotation to the East

Once you have reached the desired East/West limit, switch to the respective field “Set current position for “****” border” and press the OK button to confirm.

If you subsequently want to delete the set limits, switch to the “Reset border positions” field and press the OK button to confirm deletion of the limits. You can now set new limits. Once you have set all the limits, press the BACK button.

**Select Satellites**

Select the “Select Satellites” field. Select here which satellites you wish to receive via your turntable. Pressing the OK button presents an on-screen display of the satellites stored in the receiver:

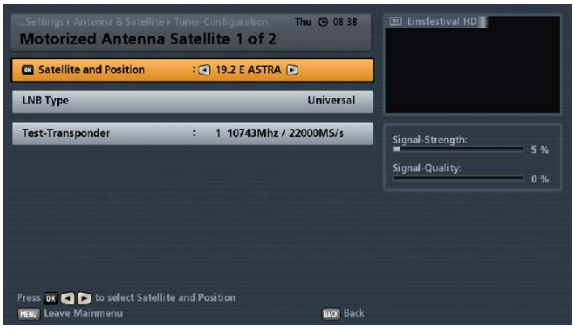

Motorized Antenna (DiSEqC 1.3 USALS)
Einsfestival HD
Select Satellites
1 19.2 E ASTRA 19.2E
2 13.0 E HOTBIRD 13.0E
3 42.0 E TURKSAT 42.0E
4 23.5 E ASTRA 23.5E
5 28.2 E ASTRA 28.2E
6 5.0 E SIRIUS 4 5.0E
7 7.0 E EUTELSAT W3A 7.0E
8 9.0 E EUROBIRD 9 9.0E
9 10.0 E EUTELSAT W1 10.0E
10 16.0 E EUTELSAT W2 16.0E
Selected Satellite
Back
Select Satellites

Use the buttons to select the satellites to be received and confirm your selection in each case using the OK button. The selected satellites will be identified with a tick.

**Configure Satellites**

Select the “Configure Satellites” field.

Press the OK button to allow settings/ selection of the satellite(s).
The following on-screen display appears:




Satellite and Position:

Select the “Satellite and Position” field. From the previously selected satellites, select here the satellite for which you want the turntable to search.

LNB Type:

If your reception system does not have a Universal LNB, press the OK button so that you can make the settings for the LNB.

You can choose from the following LNB types:

- Universal
- Simple
- User-defined

If you select “Universal” you need make no further settings. If you select “Simple” you need to enter the low frequency manually. For this, refer to the documentation for your LNB.
If you select “user-defined” you need to manually set all the frequency ranges that are configured for your LNB. For this, refer to the documentation for your LNB.

Test-Transponder:

Select the “Test-Transponder” field. Select here a test transponder for the satellite being searched for, at which you will be able to detect in the course of the search for the satellite when you have received a signal from the satellite being searched for.

If you previously selected more than one satellite under “Select Satellites”, you must now make this setting for the other satellites. Switch to the “Satellite and Position” field and select the next satellite. Repeat the set-up of the turntable for this satellite, as described above.

Once you have made the settings for all the selected satellites, press the BACK button three times to exit the menu.

The following on-screen display appears:

Press the OK button to save your settings or the BACK button to leave the “Tuner-Configuration” menu without saving.

## OneCable System

The individual items are selected using the ▲▼ buttons. If you need to access sub-menus, they can be called up using the OK button. The changes to the current settings can be performed using the ◄► buttons or the number pad.

The following on-screen display appears:

...Settings ▸ Antenna & Satellite ▸ Tuner-Configuration
Thu 08:39
OneCable System
Einsfestival HD
Configure System : UAS 481
Satellite 1: 19.2 E ASTRA
Press OK to select Motorized Antenna
MENU Leave Mainmenu
BACK Back to Tuner-Configuration

Use the ◄► buttons to select the single cable system used in your reception system:

- EXR .../EXU ... For all Kathrein one cable matrices
- UAS 481 For the Kathrein one cable LNB UAS 481
- User-defined For all one cable systems not covered by either of the above specifications

Continue as for the explanation for the single cable system you have selected in this section.

## EXR .../EXU ...

The individual items are selected using the ▲▼ buttons. If you need to access sub-menus, they can be called up using the OK button. Changes to the current settings can be made using the ◄► buttons or the number pad.

Press the OK button to open the settings for the selected single cable system. The following on-screen display appears:

OneCable System
Configure System : EXR ... / EXU ...
Number of Satellites : 2
Satellite 1: 19.2 E ASTRA
Satellite 2 : Not Installed
Einsfestival HD

**Refer to the documentation supplied with your system for the settings for the SCR, frequencies and any PIN assigned to the tuner. You will find there a printed list showing the assignment between the various SCRs and the respective transmission frequencies. It may happen that you cannot freely select the PIN for protection of individual frequencies; this also may be listed in the documentation for the single-cable components.**

**Please note also that multiple receivers cannot share the same frequencies/ channels - the receivers would interfere with each other.**

Secure channel with PIN:

If your single cable system allows the transmission frequency to be protected by entering a PIN, this is the menu where that can be done. No other receiver can then use this transmission frequency unless the PIN is entered.

Select the setting “On”. You then have the facility of using the number pad to enter a PIN code (0-255) in the line underneath “Tuner PIN code”.

Tuner (transmission channel):

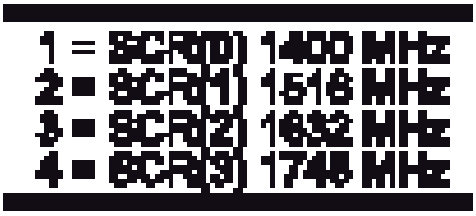
Select a free available transmission channel (SCR 0 - SCR 7).

Tuner SCR Frequency

(transmission frequency:)

Select here one of the free available transmission frequencies.

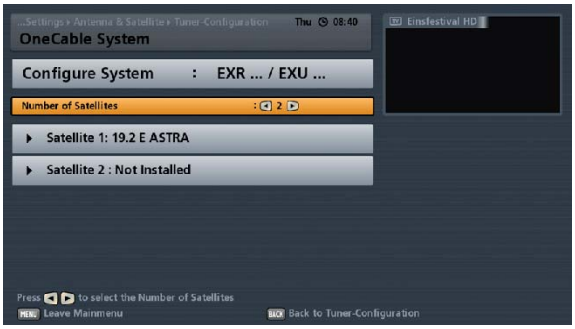
See example on the right (EXR 551) assignment of a transmission channel to a transmission frequency.




When you have completed all settings, press the BACK button.

**Number of Satellites**

Select the “Number of Satellites” field and set the number of satellites to be received by your reception system. A maximum of two satellites can be received.


...Settings ▸ Antenna & Satellite ▸ Tuner-Configuration
Thu 08:40
OneCable System
Einsfestival HD
Configure System : EXR ... / EXU ...
Number of Satellites : 2
Satellite 1: 19.2 E ASTRA
Satellite 2 : Not Installed
Press to select the Number of Satellites
MENU Leave Mainmenu
BACK Back to Tuner-Configuration

**Satellite 1: ....**

Select the “Satellite 1:***” field and press the OK button to make the settings for the first satellite to be received. The following on-screen display appears (example):

...Settings ▸ Antenna & Satellite ▸ Tuner-Configuration
Thu 08:41
OneCable System 1 of 2 (EXR/EXU/User)
Einsfestival HD
Satellite and Position : 19.2 E ASTRA
LNB Setting Universal
Test-Transponder : 1 10743Mhz / 22000MS/s
Signal-Strength: 5 %
Signal-Quality: 0 %
Press OK to select Satellite and Position
MENU Leave Mainmenu
BACK Back

LNB Type:

If your reception system does not have a Universal LNB, press the OK button so that you can make the settings for the LNB. You can choose from the following LNB types:

- Universal
- Simple or
- User-defined

If you select “Universal” you need make no further settings. If you select “Simple” you need to enter the low frequency manually. For this, refer to the documentation for your LNB.
If you select “user-defined” you need to manually set all the frequency ranges that are configured for your LNB. For this, refer to the documentation for your LNB. Select the frequency range to be changed and set the values that are correct for your LNB, using the ◄ ► buttons or the number pad. When you have completed all settings, press the OK button.

Test-Transponder:

Select the “Test-Transponder” field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar. If no connection can be established to the single-cable system, check your settings (frequency and transmission channel) and if necessary call for expert help.

If you previously selected two satellites under “Number of Satellites”, you must now make these settings for the second satellite. Switch to the “Satellite 2:***” field and make the settings in the same way as for the first satellite.

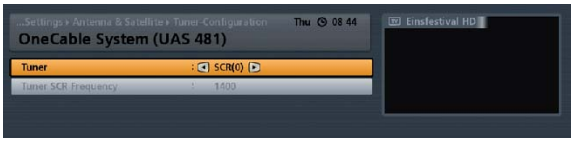
When you have completed all settings for the satellites, press the BACK button twice. The following on-screen display appears:

Press the OK button to save your settings or the BACK button to leave the “Tuner-Configuration” menu without saving.

## UAS 481

The individual items are selected using the ▲▼ buttons. If you need to access sub-menus, they can be called up using the OK button. Changes to the current settings can be made using the ◄► buttons or the number pad.

Press the OK button to open the settings for the selected single cable system. The following on-screen display appears:




**For the settings please refer to the documentation with the UAS 481.**

**No frequency can be used by more than one receiver. The receivers would interfere with each other.**

Tuner (transmission channel):

Select a free available transmission channel (SCR 0 - SCR 3).

Tuner SCR Frequency (transmission frequency:)

This setting is already pre-set on the UAS 481 and cannot be changed.

When you have made all settings, press the BACK button.

**Satellite 1: ....**

Select the “Satellite 1:***” field and press the OK button to make the settings for the first satellite to be received. The following on-screen display appears (example):

**Satellite and Position**

Select the “Satellite and Position” field. Select here the satellite on which your reception system is aligned. Pressing the OK button presents an on-screen display of the satellites stored in the receiver:

Use the buttons to select the satellite to be received and confirm the selection using the OK button. The selected satellite is added.

Test-Transponder:

Select the “Test-Transponder” field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar. If a connection to the one cable system cannot be established, check your settings (frequency and transmission channel) and if necessary call for expert help.

When you have completed all settings for the satellite, press the BACK button three times. The following on-screen display appears:

Press the OK button to save your settings or the BACK button to leave the “Tuner-Configuration” menu without saving.

## User-defined

The individual items are selected using the ▲▼ buttons. If you need to access sub-menus, they can be called up using the OK button. Changes to the current settings can be made using the ◄► buttons or the number pad.

Press the OK button to open the settings for the selected single cable system. The following on-screen display appears:

**Refer to the documentation supplied with your system for the settings for the SCR, frequencies and any PIN assigned to the tuner. You will find there a printed list showing the assignment between the various SCRs and the respective transmission frequencies. It may happen that you cannot freely select the PIN for protection of individual frequencies; this also may be listed in the documentation for the single-cable components.**

**Please note also that multiple receivers cannot share the same frequencies/ channels - the receivers would interfere with each other.**

Secure channel with PIN:

If your single cable system allows the transmission frequency to be protected by entering a PIN, this is the menu where that can be done. No other receiver can then use this transmission frequency unless the PIN is entered.

Select the setting “On”. You then have the facility of using the number pad to enter a PIN code (0-255) in the line underneath “Tuner PIN code”.

Tuner (transmission channel):

Select a free available transmission channel (SCR 0 - SCR 7).

Tuner SCR Frequency (transmission frequency:)

Select here one of the free available transmission frequencies or enter the related frequency using the number pad (see documentation on your single cable system).

When you have completed all settings, press the BACK button.

**Number of Satellites**

Here select up to the number of satellites that are in the signal (max. two).

**Satellite 1: ....**

Select the “Satellite 1:***” field and press the OK button to make the settings for the first satellite to be received. The following on-screen display appears (example):

LNB Type:

If your reception system does not have a Universal LNB, press the OK button so that you can make the settings for the LNB. You can choose from the following LNB types:

- Universal
- Simple or
- User-defined

If you select “Universal” you need make no further settings. If you select “Simple” you need to enter the low frequency manually. For this, refer to the documentation for your LNB.
If you select “user-defined” you need to manually set all the frequency ranges that are configured for your LNB. For this, refer to the documentation for your LNB. Select the frequency range to be changed and set the values that are correct for your LNB, using the ◄ ► buttons or the number pad.

When you have completed all settings, press the OK button.

Test-Transponder:

Select the “Test-Transponder” field. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar. If no connection can be established to the single-cable system, check your settings (frequency and transmission channel) and if necessary call for expert help.

If you previously selected two satellites under “Number of Satellites”, you must now make these settings for the second satellite. Switch to the “Satellite 2:***” field and make the settings in the same way as for the first satellite.

When you have completed all settings for the satellite, press the BACK button three times. The following on-screen display appears:

Press the OK button to save your settings or the BACK button to leave the “Tuner-Configuration” menu without saving.

On this aspect please follow the separate instructions “Mediacenter und Netzwerk(Web)-Interface” (see screenshot below) that you can download from the Internet at: www.kathrein.de → “Service” → “Software and Downloads” → “Receiver” → “UFS 912”.

Currently these instructions are only available in German!

# Operation Without the Remote Control

If you have misplaced your remote control, or if the batteries are flat, you can still operate your receiver from the front panel.

## Backup operation

There are four buttons on the front of the receiver:

**on/off (standby) button (on/off):**
The on/off button allows the receiver to be switched On (operation) and Off again (stand-by mode).

**Media button+:**
Using the Media button can display and hide the media centre.

**TV/R button:**
You can change between the TV and the radio mode using the TV/R button.

**Channel down -:**
The channel down button switches to the next channel down in the currently selected channel list.

**Channel up +:**
The channel up button switches to the next channel up in the currently selected channel list.

After the receiver has been switched off and on again, the last function to be selected is active.

**Because there are no numbered buttons, no password/PIN-protected functions can be displayed.**

# Operation Without the Remote Control

## Software update via the USB port

**A pre-requirement for the updating via a USB device is an empty USB device (such as a USB stick), formatted as FAT32, containing only the operating software or channel list to be loaded. It is essential that the operating software to be loaded is stored on the USB device under the following directory structure:**
**Main folder: kathrein**
**Subfolder: ∟ ufs912**

**You can also download the updates from the Internet. The address is: http://www.kathrein.de**
**You will find the software at "Service" → "Software and Downloads" → "Receiver" → "UFS 912"**

## Performing the software update

1. Switch the receiver to the standby mode using the Standby button on the receiver (see previous page)
2. Switch off the receiver at the main switch at the rear of the unit
3. Now connect your USB device (with the new operating software, in the required directory structure) to the receiver, using the USB port on the front panel of the receiver
4. Keep the TV/R button pressed, and switch the receiver on again, using the main switch at the rear of the unit

The following on-screen display appears: Emergency Boot

Once the receiver has displayed this text you can let go the TV/R button. Then the receiver undertakes all the necessary update steps and on completion of the update starts in the operating state last selected.

**Do not switch off the receiver during this process; wait until the automatic restart has been completed. Otherwise, the software on the unit could be damaged!**

You can now disconnect the USB device from the receiver.

# Troubleshooting

In the event of a malfunction, first check all the cable connections and operating states:
1. Receiver and TV set power plugs are connected to wall socket
2. Antenna cables are connected to the receiver input
3. Receiver and TV set are correctly connected to each other by a HDMI or Scart or cinch cable
4. Audio connections are made to the Hi-Fi or Dolby Digital system as appropriate
5. Receiver and TV set (Hi-Fi/Dolby Digital system) are switched on (check power indicators)
6. Receiver is responding to remote control

A selection of troubleshooting tips is offered below.

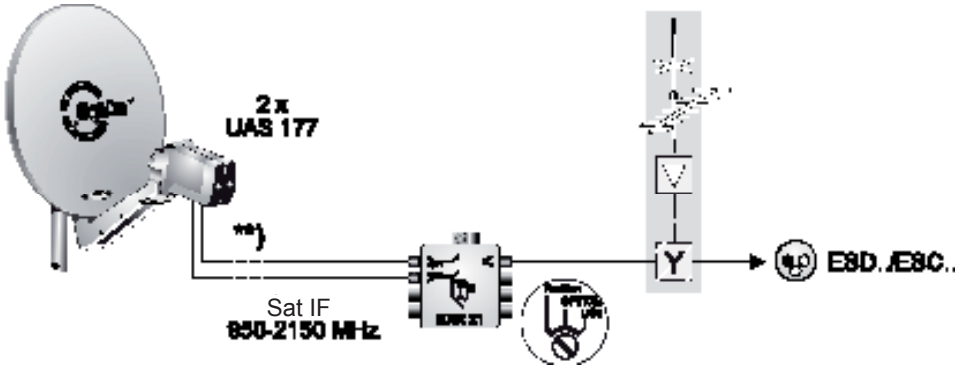
| Problem | Cause | Remedy |
|---|---|---|
| A “No signal!” warning appears on some or all channels | | Consult an antenna specialist to have it checked and repaired as necessary. Check the settings made in the “Settings”, “Antenna & Satellite”, “Tuner-Configuration” menu, and change them if necessary. |
| Remote control no longer responding | Receiver or remote control command set may have been unintentionally changed | Set infrared code 1 as described in this manual under “Mainmenu Settings”, “Basic settings”, “Setting the remote control code”, check the batteries |
| Wrong time being displayed | “Summertime” setting wrong. An incorrect time was imported from the reception signal | Check summer time in the “Settings” “Time Setup” menu and change it as necessary Use the power switch to switch the receiver off from the current channel, e.g. Das Erste or ZDF, wait 10 seconds and then switch it back on |
| The following channels cut out or “No or bad signal!” appears: DSF, Tele 5, HSE 24 and Sonnenklar TV | DECT telephones operate on the same frequency as these channels. Interference may occur due to inadequate level or poor shielding of cable | Consult your antenna specialist |
| Black or blue screen, no on-screen displays | Scart connection to TV deactivated by accidentally pressing the 0 button | Keep pressing the 0 button until the TV picture reappears on the screen |
| Network problem | Check that the (cross-over) network cable is correctly connected at the PC and receiver (clicked home) | Refer to your PC or network specialist |

## Technical Specifications

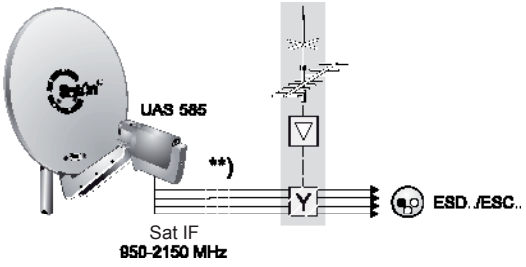
| Type | | UFS 912si | UFS 912sw |
|---|---|---|---|
| Order no./colour | | 20210147/silver | 20210148/black |
| RF section | | | |
| Sat IF band | MHz | 950-2150 | |
| Input level band | dBµV | 44-83 | |
| Modulation, FEC, demultiplexer | | DVB-S/DVB-S2 standard | |
| Video resolution | | CCIR 601 (720 x 576 lines), 576p, 720p, 1080i | |
| Video decryption | | MPEG-2, MPEG-4 compatible | |
| Input data rate | MSymb/s | 2-45 (30 for DVB-S2/8PSK) | |
| S/N | dB | > 53 | |
| TV system, audio | | | |
| Decryption | | AC 3, MPEG 1, Layers 1, 2 and 3 | |
| Sampling rate | kHz | 32/44.1/48 | |
| S/N | dB | > 65 | |
| Power supply | | | |
| Power supply voltage | V/Hz | 100-240/50-60 | |
| Power consumption (max./typ. operation/standby) | W | < 26/13/< 0.5 | |
| LNB supply (horiz./vert.) | V/mA | 14/18; max. 400 | |
| Control signal | kHz | 22; DiSEqC™1.0/-1.1/-1.2/-1.3; SCR one cable system | |
| Connections | | | |
| Sat IF input/output | | 2 x F socket | |
| TV/VCR connection | | 2 x Scart sockets | |
| Video output (analogue) | | 3 x Cinch socket (YPbPr)/1 x Cinch socket | |
| Video/audio output (digital) | | 1 x HDMI | |
| Audio output (analogue/digital) | | 2 x Cinch socket/standard fibre-optic (SPDIF) | |
| Data interface | | | |
| Common Interface | | For 2 CA modules | |
| USB | | 3 x 2.0 | |
| Ethernet | | 1 | |
| RS 232 | | 1 | |
| SD card reader | | 1 | |
| General information | | | |
| Ambient temperature | °C | Max. +5 to +40 | |
| Unit dimensions (W x H x D)/weight | mm/kg | 342 x 67 x 273/< 3 | |

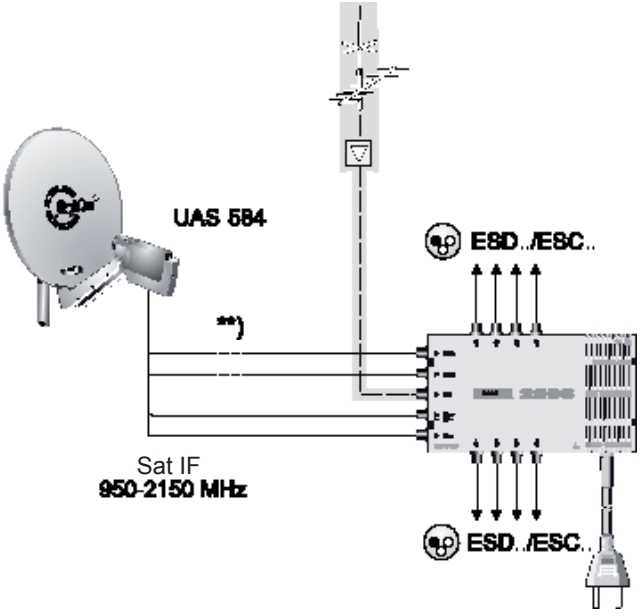
## Sat IF connection examples

### Individual reception systems



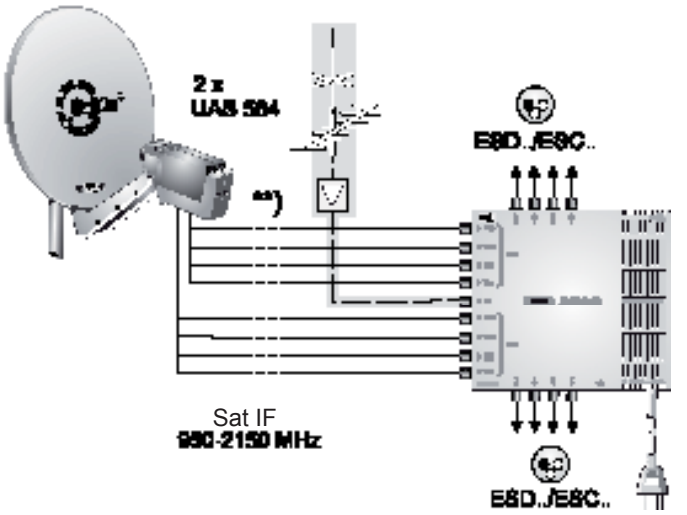

### Community antenna network systems (4 x Sat IF)



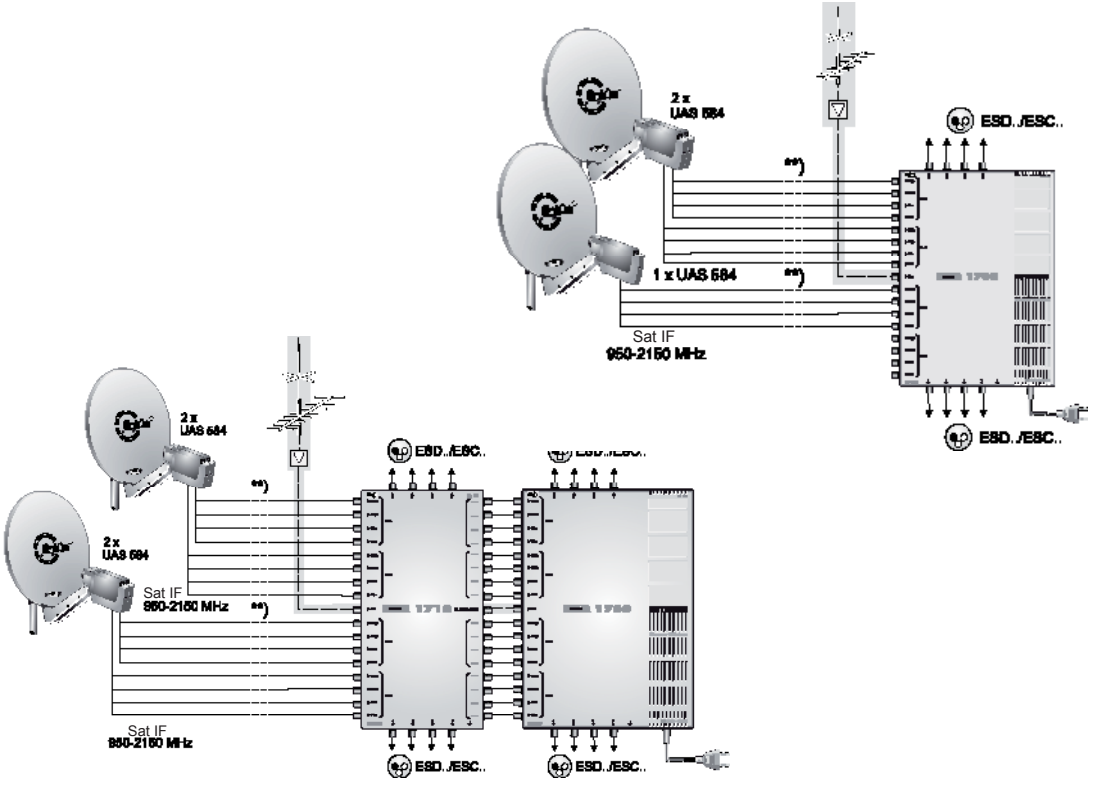




**) Overvoltage protection KAZ 11/KAZ 12

## Community antenna network systems (8 x Sat IF), multi-feed

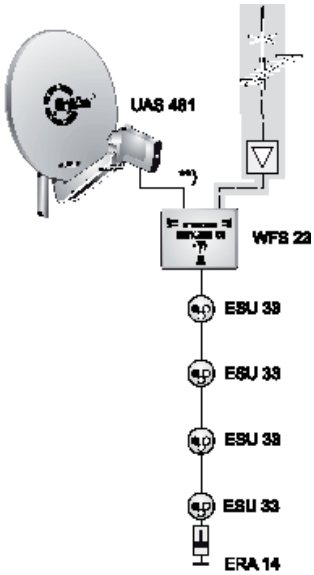


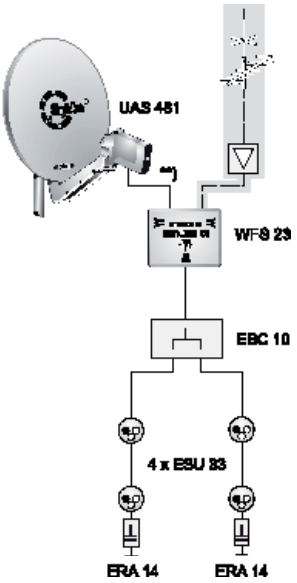

## Community antenna network systems (16 x Sat IF), multi-feed

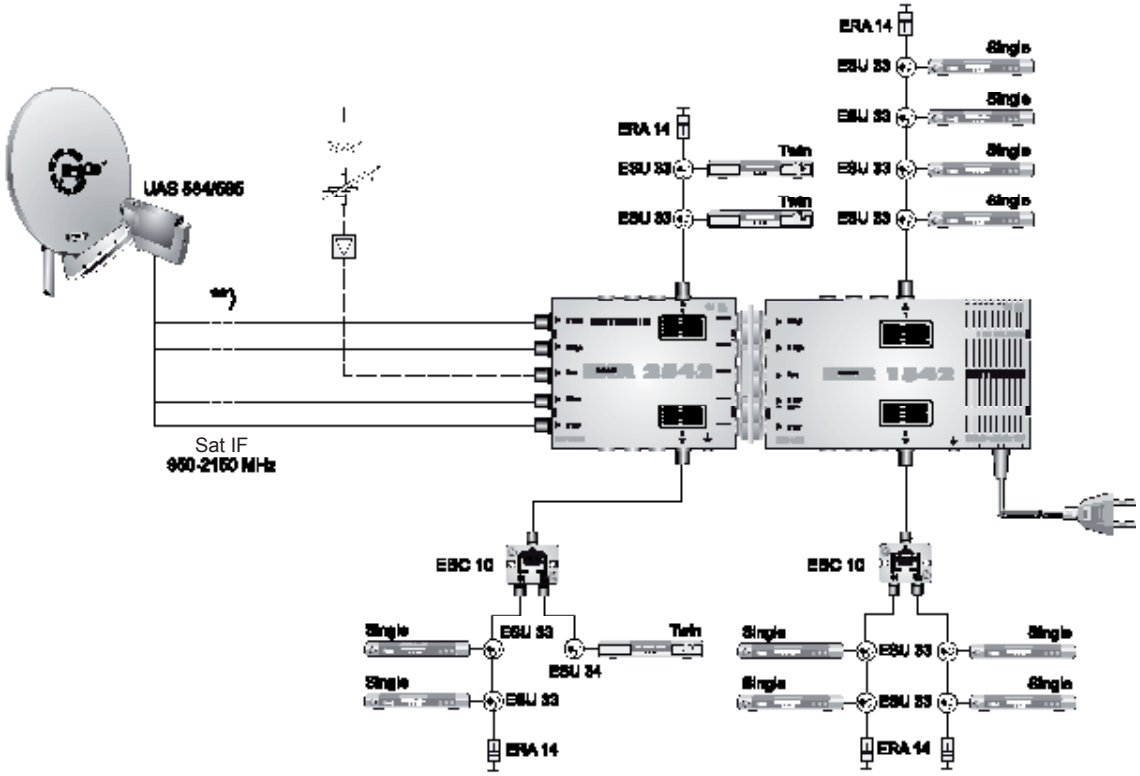



**) Overvoltage protection KAZ 11/KAZ 12

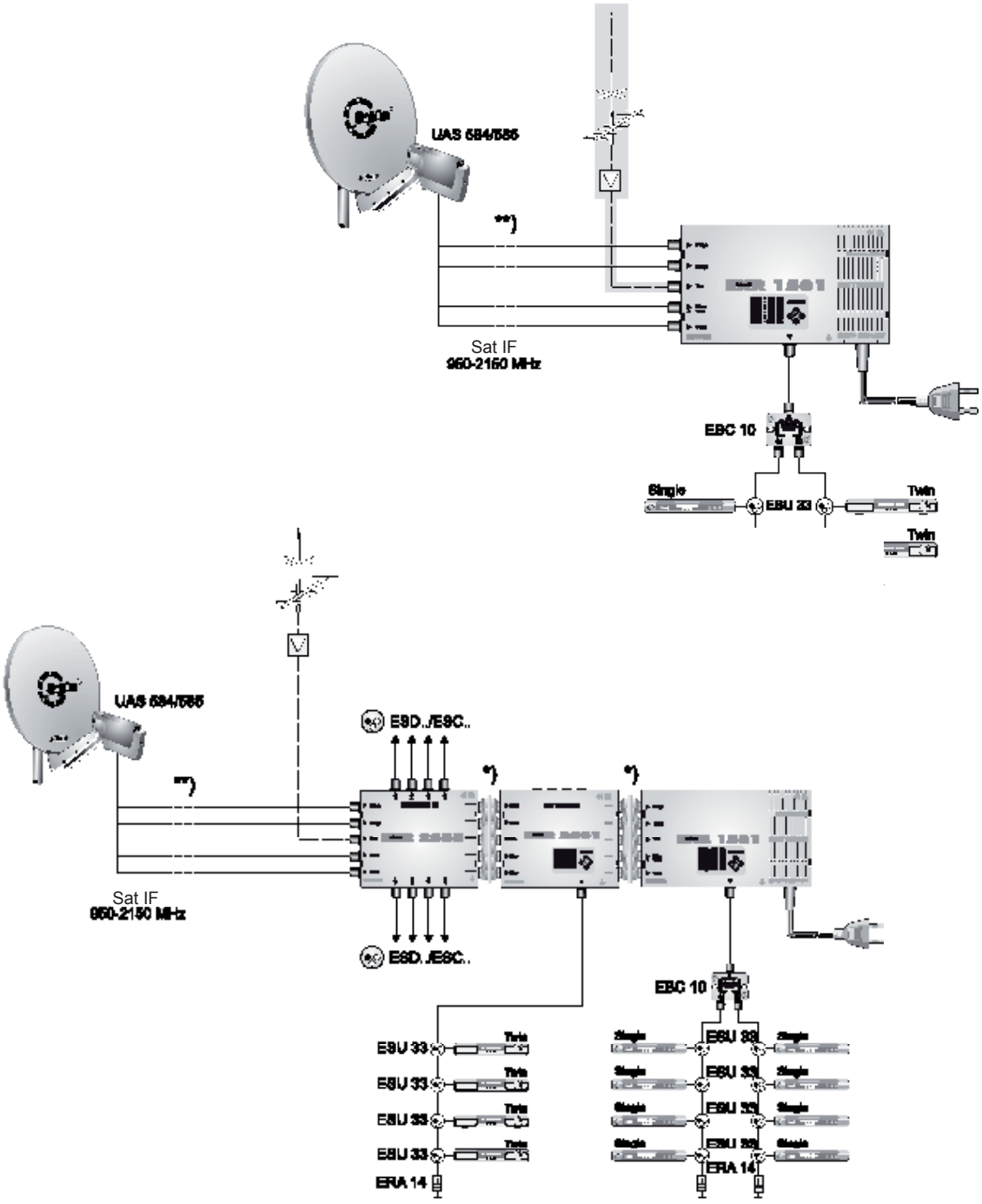
## Single cable systems



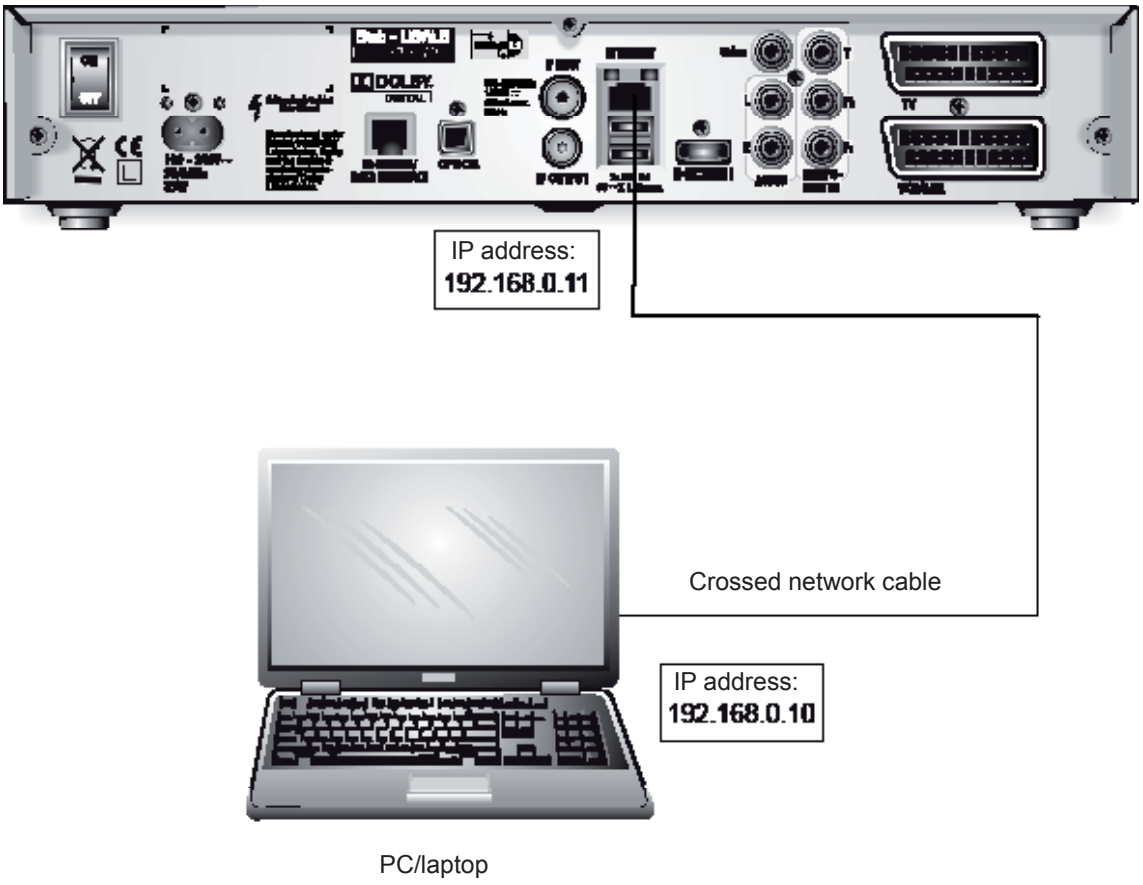

**) Overvoltage protection KAZ 11/KAZ 12



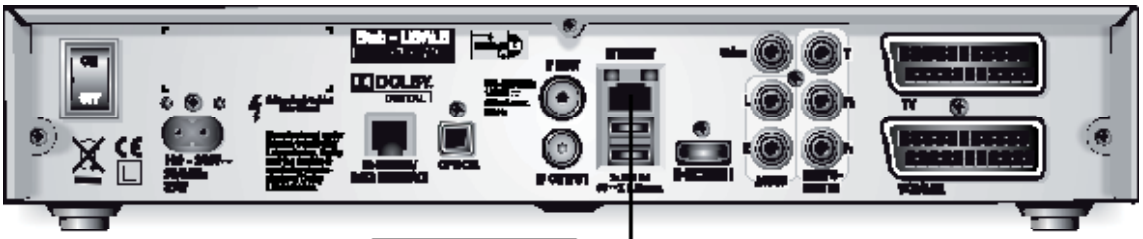

**) Overvoltage protection KAZ 11/KAZ 12

## Connection examples for network functionality

### DHCP (Receiver): OFF



## DHCP (Receiver): OFF



TCP/IP address:
192.168.0.12

Network cable

Switch/HUB

Network cable

Network cable

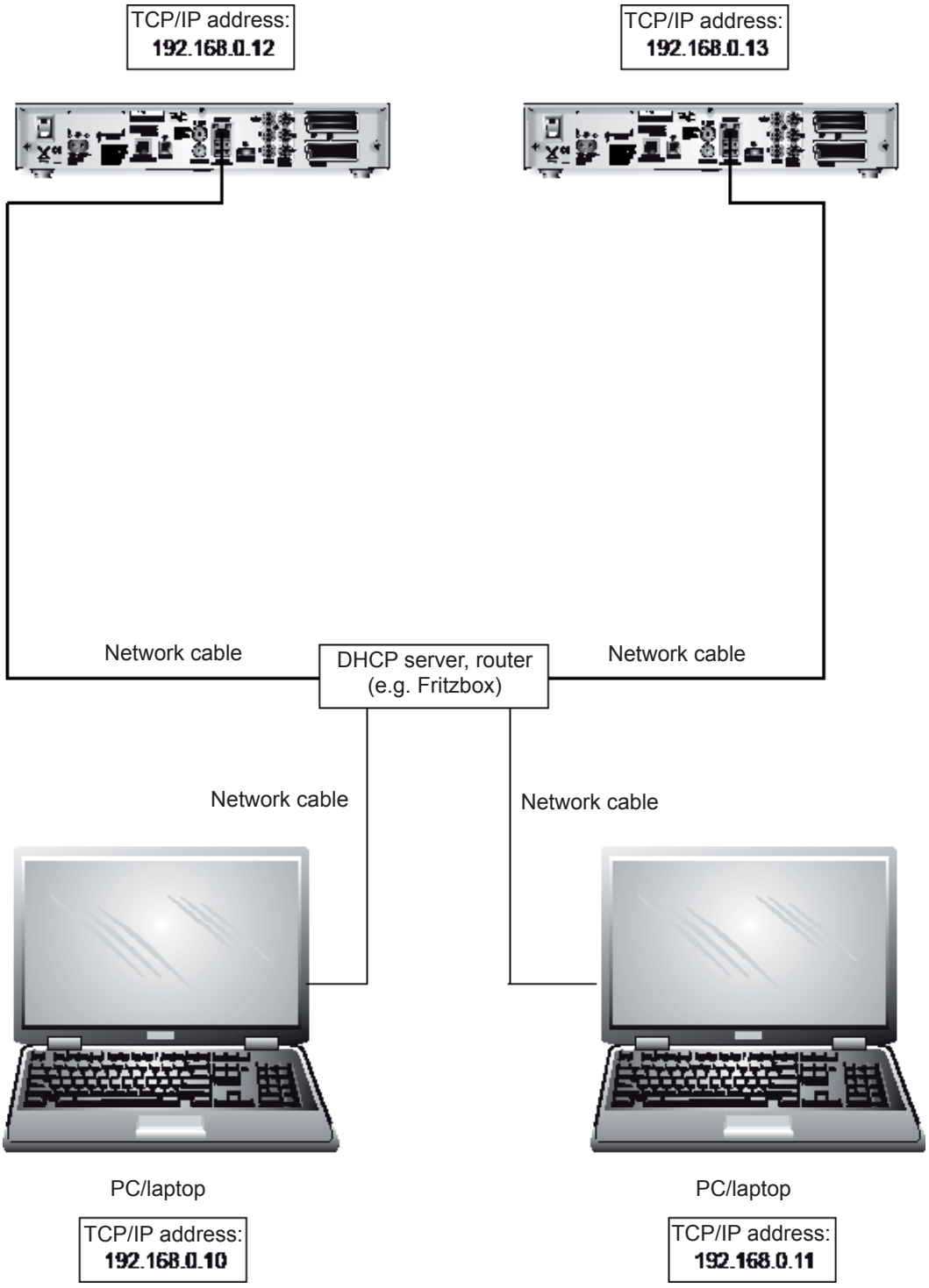
PC/laptop

TCP/IP address:
192.168.0.10

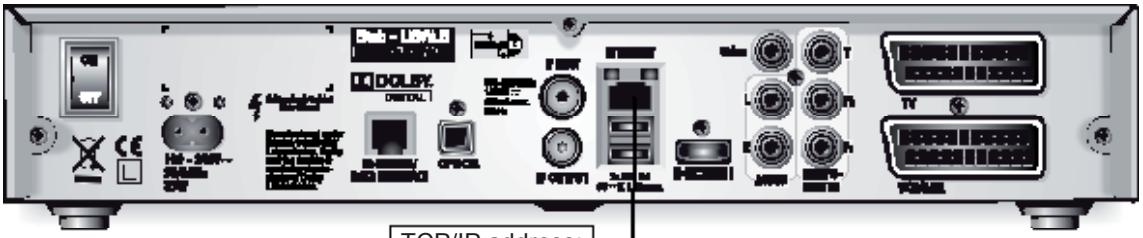
PC/laptop

TCP/IP address:
192.168.0.11

## DHCP (Receiver): OFF



## DHCP (Receiver): ON



TCP/IP address:
automatic

DHCP server, router
(e.g. Fritzbox)

Network cable

Wireless transmission

PC/laptop

# Short Technical Glossary

**AC 3**
Output for Dolby Digital signal

**ASTRA**
SES (Société Européene des Satellites) satellite system. Analogue and digital transponders in the frequency range 10.7-12.75 GHz.

**AV programme pos.**
Preferred programme slot on TV set for external connections such as Scart and HDMI

**CAM – Conditional Access Module**
Decryption decoder, which uses a smart card to decrypt the encrypted radio and TV signals.

**Channel package**
The channel package for a digital transponder normally includes several TV and radio channels. Each channel package has a fixed assignment for the transponder transmission frequency, for polarisation (horizontal or vertical), for the symbol rate and for the Viterbi rate or error rate.

**CI – Common Interface**
Internationally standardised interface for CA modules

**Composite colour video signal**
Colour baseband signal for the transmission of colour video signals

**Data rate**
Data bits transmitted per second. Is expressed in kbit/s or Mbit/s. The higher the data rate the better the quality of the transmitted signal.

**Data reduction**
Compression of video and audio signals. Redundant information is discarded.

**DHCP**
Dynamic Host Configuration Protocol. This features permits automatic integration into a network.
Automatic assignment of the IP address, subnet mask, standard gateway and DNS server. As a result these parameters do not need to be entered in a network in conjunction with a router.

**DiSEqC™**
DiSEqC™ (Digital Satellite Equipment Control) is a communication system between a satellite receiver (master) and the peripheral satellite components (slaves), such as LNBs, multi-switches, rotating antenna systems.
It is a single master/multi-slave system, i.e. there is only ever one master in the satellite system. All activities start from the master.

**DiSEqC™ components**
If DiSEqC™ switching matrices are cascaded, the master receiver must transmit the DiSEqC™ signal several times, so that all DiSEqC™ multi-switches in the cascade receive their commands.
These days, DiSEqC™ components (slaves) must be downward compatible, i.e. respond to the analogue switching criteria from receivers that are only equipped with H/V and 22 kHz control signals.
A DiSEqC™ switching matrix will work with analogue switching criteria until the DiSEqC™ command from the master is received. All analogue switching criteria are then ignored.

**DNS server**
Domain Name System server. Is used to determine IP addresses (other PCs or receivers) within a network with DHCP function enabled.

**Dolby Digital 5.1**
Dolby Digital is a sound transmission that allows digital surround sound to be output on a home cinema system.

**DVB - Digital Video Broadcasting**
DVB-S refers to the transmission method (S = satellite, C = cable, T = terrestrial).

**DVB-S2**
An enhanced DVB-S signal for HDTV with better quality.

**EUTELSAT**
European Satellite operator, based in Paris. Many orbit positions and European customers. Transponders in the frequency range 10.7-12.75 GHz.

**FAT and FAT32**
File systems for storage media

# Short Technical Glossary

**FEC**
FEC is the abbreviation for Forward Error Correction. A technique for reducing the error rate of data transmission. Additional bits are inserted into the data stream, so that error-correction algorithms can be used on reception. The FEC error rate corresponds to the Viterbi rate.

**FTP – File Transfer Protocol**
File transfer method. FTP is a network protocol for the transmission of files over IP(Internet Protocol) networks

**GNU**
GNU is not Unix, it is an open operating system for software developers.

**HD – Ready**
This is a label created by the EICTA (European Information, Communications and Consumer Electronics Industry Technology Association) for equipment that is capable of reproducing HDTV.

**HDCP – High-bandwidth Digital Content Protection**
Encryption system which protects the HDMI and DVI interfaces for secure transmission of video and audio data.

**HDMI – High Definition Multimedia Interface**
Digital interface for digital video and audio data transmission between TV and receiver (preferred for HDTV).

**HDTV – High Definition Television**
High resolution television with a resolution up to five times higher or finer than PAL or NTSC. However, there is no compatibility, as the transmission process DVB-S2 and the compression technique MPEG-4 are used for broadcasting.
The principal features of HDTV are the larger picture format (16:9), the doubled number of scanning lines (increased from the currently 625 to 1,250) and digital sound quality.

**High band**
Satellite frequency range between 11.7 GHz and 12.75 GHz.

**H.264**
Another designation for MPEG-4.

**IP address**
Internet Protocol address. Every unit that can be used in a network has a dedicated IP address so as to obtain an unambiguous assignment (address) for e.g. the exchange of data.

**JPEG - Joint Photographic Experts Group**
Image compression technique.

**LAN - Local Area Network**
Local network

**Linux**
Operating system

**LNB - Low Noise Block Converter**
Converts the satellite downlink frequencies into the Sat-IF.

**Low band**
Satellite frequency range between 10.7 GHz and 11.7 GHz.

**MP3**
File format for compressed audio files

**MPEG-2**
MPEG is the abbreviation for ”Moving Picture Experts Group”, a working group that formulates internationally applicable standards for the digital compression of video and audio. MPEG-2 has become established as the standard for compression of digital TV signals. MPEG-2 works up to a data rate of 100 Mbit/s.

**MPEG-4**
A further development of MPEG-2 with even higher data compression, intended for HDTV transmissions.

**Network**
Connection of several PCs that as a result can communicate and exchange data

**NIT**
The channel identification number is also referred to as the Network ID or NIT.

**NTFS**
File system for storage media

# Short Technical Glossary

**OSD – On-Screen Display**
Displays by the receiver on the TV screen (e.g. main menu)

**PAL**
Analogue TV standard

**Pay TV**
Television channels available on subscription (e.g. Sky). Encrypted transmitters which can be decrypted only by using the appropriate smart card. As a rule these services are subscription-only.

**PID**
The PID (Packet IDentification) number is an identification number for video signals and audio signals in the digital data stream of DVB-MPEG-2 signals. The receiver uses the PID number to create a unique assignment for the video and audio data transmission. The PCR-PID is the identification number for the synchronization signal. The PID-PCR is normally identical to the video PID. For programmes broadcast in multiple languages, the audio PD can be entered manually to assign a different language to the TV programme. After the PID is entered, the digital receiver automatically selects the audio data identified by the PID number from the data stream and assigns it to the video signal.

**PIN**
Personal Identification Number. For this unit the PIN is a 4-digit numeric code which must be entered to unlock the unit to allow access to certain functions and channels.

**Polarisation**
The individual transponders on satellites transmit on two different (polarisation) planes (horizontal and vertical). As a result the capacity of the transponder is increased.

**QPSK - Quadrature Phase Shift Keying**
Digital modulation process that is used for satellite transmission (8PSK is also used in connection with HDTV).

**Receivers**
Receiver

**RGB**
Video signal made up of three individual colour signals (red, green, blue)

**SAT IF signal**
Receiver input signal, satellite intermediate frequency

**Scart cable**
21 pin connecting cable (e.g. receiver/TV)

**SCR single cable system - Satellite Channel Router**
The single-cable system is used to distribute digital Sat IF signals (including HDTV) and terrestrial signals over one cable to up to eight receivers. There is no limit on the variety of channels, i.e. the complete range of channels from one or two satellites is transmitted. Switching and the transponder selection are undertaken in the feed system or in the matrix and are controlled by the receiver using a special DiSEqC™ command to EN 50494. Each receiver is allocated a fixed subscriber frequency over which it receives its channels. A twin receiver requires two such subscriber frequencies. The transponder selection and conversion to the subscriber frequencies is undertaken using special tuner modules, so-called SCR (Satellite Channel Router) that are installed in the feed system or in the matrix.
The Kathrein single-cable system satisfies the single-cable standard in accordance with EN 50494, i.e. all components of a single-cable system that satisfy this standard can be installed in a satellite system

**Smart card**
Card from Pay TV provider to decrypt its channels

**Standard gateway**
Is used as an interface between two networks or computers that are linked via a router.
As a result the it is possible to transmit data.

**Standby**
Standby mode

**Streaming**
Transmission of data (recordings) in real-time

# Short Technical Glossary

**Subnet mask**
Defines an IP address range in a subnet (small independent network).

**Symbol rate**
The symbol rate describes the quantity of data that is transmitted per second. The symbol rate is measured in MSymbols/s and is equal to the number of symbols received per second.

**Timeshift function**
Time shifted playback

**Transponder**
A transponder is a frequency converter which receives TV and radio signals broadcast from the earth, converts them and the rebroadcasts them to the earth at a different frequency. A satellite has several transponders.
Analogue transponders transmit only one TV channel and possibly multiple radio channels on a single transmission frequency.
Digital transponders simultaneously transmit several TV and several radio programmes on a transmission frequency. If a channel provider is broadcasting several TV channels via a digital transponder, we refer to the provider's channel package. The terms “digital transponder” and “channel package” have the same meaning.

**UPnP**
Stands for “Universal Plug and Play”. Further information is available from “www.upnp.org”.

**VCR/PVR connection**
Connection for an external recorder (such as a video or DVD recorder)

**Viterbi rate**
The Viterbi rate (code rate, error rate) characterises the error protection used by the channel provider. The DVB standard provides the following values: 1/2 - 2/3 - 3/4 - 5/6 - 7/8

**Y/C**
S-video signal

**Web interface**
This is a web interface for interaction between two or more systems (e.g. receiver to PC). As a result it is possible, e.g., to transfer data.

**8PSK (8-Phase-Shift-Keying)**
Digital modulation process used for HDTV satellite transmission

# Service

If, despite studying this operating manual, you still have questions about getting started with the unit or using it correctly, or if unexpected problems occur, please contact your specialist dealer.

# Subject Index


4 GB limit 141

## A

Actor 67
Add to favorites list 82
Alphanumeric entries 46
Antenna & satellites 126
Applications 141
Audio settings 116
Automatic channel name update 126
Automatic channel search 101
Automatic software update 107
Automatic timeshift 56, 125

## B

Backup operation 166
Basic settings 113

## C

Calling up EPG 59
Calling up the options channel 53
Calling up the recording archive 85, 88
Categories view 63
Change category 94
Channel banner duration (channel information) 122
Channel information 52
Channel search 40, 101
Channel search with service ID 105
Channel selection 49
Channel selection from the channel list 50
Chapter view 96
Common Interface 134
Community antenna network systems (4 x Sat IF) 170
Community antenna network systems (8 x Sat IF) multifeed 171
Community antenna network systems (16 x Sat IF) multifeed 171
Connection example 15
Connection examples for network functionality 174
Creating a new folder 95
Creating chapters 91
Creating folders 88
“Current” view 61
Customize screen menu 122

## D

Default record duration 125
Deleting 81, 93
Deleting chapters 97
DHCP “Off” 139
DHCP “On” 139
DHCP (Receiver): OFF 174, 175
DHCP (Receiver): ON 177
Difference between PAL and HDTV 3
Direct channel selection 49
DiSEqC™1.0 145
DiSEqC™1.1 147
DiSEqC™1.2 150
DiSEqC™1.3 154
Display volume bar 122

## E

Editing a recording 77
Editing channel list 78
Editing channels (channel lists) 80
Editing folders (delete/rename) 89
Editing recordings 92
Editing satellites 128
Editing transponders 130
EPG setup 123
EPG update 123

# Subject Index


EPG updating time 124
EXR .../EXU ... 158
Extras menu 64

F

Factory reset 112
Fault detection and troubleshooting 168
Features 10
First installation 17
Front display brightness 123
Front display in standby 123
Front display notification 123
Full text search 68

G

General information on Premium EPG 58

H

HDD management 137

I

Individual reception systems 170
Interfaces 134

K

Key word search in detailed information 67

L

Language settings 142
Lock 82, 93

M

Make dedicated HDD 138
Manual channel search 103
Media centre 165
Media centre settings 126
More episodes 66
Motorized antenna 150
Move to folder 95
Moving 81
MP3 player screensaver 126
Multidecryption 136
My hints 64

N

Network settings 138

O

One cable system 36, 157
One-Touch Recording (OTR) 57

P

Parental lock 120
Performing the software update 167
Playback banner duration (playback information) 122
Playback functions 90
Playback of a recording 90
Post recording time 124
Power consumption in standby mode < 1 W 9
Premium tvtv EPG 59
“Preview” view (programme listings) 62
Pre-recording time 124
Programme not in EPG 70
PVR (recording) settings 125

R

Recording archive (play back/edit recordings) 85
Recording “daily” 72
Recording “once” 72
Recording settings (programming the timer) 69
Recording “user-defined” 73
Recording “weekly” 73

# Subject Index


Reminder function (switch over to programme) 75
Remote control in live operation (TV/Radio) 48
Rename 93

## S

Sat finder 127
Sat IF connection examples 170
Save channel list on a USB device 111
Scope of supply 10
Search function 66
Select subtitle 54
Selecting the channel list/ favorites list to be edited 79
“Series recording” 74
Service 182
Service menu 107
Setting the remote control code 118
Setting the storage location for recordings 71
Setting the volume 49
Setting up the archive hard disk 43
Settings 113
Short technical glossary 178
Simple LNB 144
Simple MP3 mode 126
Single cable systems 172
Skip 81
Sleep timer 122
Software update by satellite 109
Software update by USB 110
Software updating via the USB port 167
Soundtrack selection 54
Start Blockselection 83
Start FTP on booting 141
Start screen (EPG) 124
Start UPnP on booting 141
Switching between TV and radio operation 49

## T

Technical appendix 169
Teletext 55
Time setup 42
Timer list view 76
Timer overlap 77
Tuner configuration 20, 128, 143
TV and VCR connection 16

## U

UAS 481 160
Update channel lists 111
User defined settings 120

## V

Video output via 18
Video settings 114
View of front panel (flap folded down) 13
View of rear panel 12
Views (sorting the recordings) in the recording archive 87
Views using the EPG 61

# For your notes

# For your notes

936.3679/-/0710/ZWT - Technical data subject to change.

Internet: http://www.kathrein.de
KATHREIN-Werke KG • Anton-Kathrein-Straße 1 - 3
P.O. Box 100 444 • 83004 Rosenheim GERMANY

KATHREIN
Antennen • Electronic